



TOSHIBA

OWNER'S MANUAL

Color Television

FST PURE[®]

COLORSTREAM[®]

THEATERWIDE **HD**

BBE[®]
DIGITAL

HDTV
MONITOR

Important
Safeguards

Welcome to
Toshiba

Connecting
your TV

Using the
Remote Control

Setting up
your TV

Using the TV's
Features

Appendix

Owner's Record

The model number and serial number are on the back of your TV. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this TV.

Model number:

Serial number:

34HF85C

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Dear Customer,

Thank you for purchasing this Toshiba TV. This manual will help you use the many exciting features of your new TV. **Before operating the TV, please read this manual completely**, and keep it nearby for future reference.

Safety Precautions

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.




WARNING


RISK OF ELECTRIC SHOCK

DO NOT OPEN



WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

 The lightning symbol in the triangle tells you that the voltage inside this product may be strong enough to cause an electric shock. **DO NOT TRY TO SERVICE THIS PRODUCT YOURSELF.**

 The exclamation mark in the triangle tells you that important operating and maintenance instructions follow this symbol.

CAUTION


TO PREVENT ELECTRIC SHOCK DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

NOTE TO CATV INSTALLERS

This is a reminder to call the CATV system installer's attention to Article 820-40 of the NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical. For additional antenna grounding information, see items 25 and 26 on page 4.

NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE DISPLAY

If a fixed (non-moving) pattern or image remains on the TV screen for extended periods of time, the image can become permanently ingrained in the cathode ray tube(s) of the TV and cause subtle but permanent ghost images. This type of damage is **NOT COVERED BY YOUR WARRANTY**. (See item 33 on page 4 for details.)

 **NEVER CONNECT THIS TV TO A PERSONAL COMPUTER (PC.) This TV is not intended for use with a PC.**

Child Safety

It Makes A Difference Where Your TV Stands



Congratulations on your purchase! As you enjoy your new TV, keep these safety tips in mind:

The Issue

- ☐ If you are like most consumers, you have a TV in your home. Many homes, in fact, have more than one TV.
- ☐ The home theater entertainment experience is a growing trend, and larger TVs are popular purchases; however, they are not always supported on the proper TV stands.
- ☐ Sometimes TVs are improperly secured or inappropriately situated on dressers, bookcases, shelves, desks, audio speakers, chests, or carts. As a result, TVs may fall over, causing unnecessary injury.

Toshiba Cares!

- ☐ The consumer electronics industry is committed to making home entertainment enjoyable and safe.
- ☐ The Consumer Electronics Association formed the Home Entertainment Support Safety Committee, comprised of TV and consumer electronics furniture manufacturers, to advocate children's safety and educate consumers and their families about television safety.

Tune Into Safety

- ☐ One size does NOT fit all! Use appropriate furniture large enough to support the weight of your TV (and other electronic components).
- ☐ Use appropriate angle braces, straps, and anchors to secure your furniture to the wall (but never screw anything directly into the TV).
- ☐ Carefully read and understand the other enclosed instructions for proper use of this product.
- ☐ Do not allow children to climb on or play with furniture and TVs.
- ☐ Avoid placing any item on top of your TV (such as a VCR, remote control, or toy) that a curious child may reach for.
- ☐ Remember that children can become excited while watching a program and can potentially push or pull a TV over.
- ☐ Share our safety message about this hidden hazard of the home with your family and friends. Thank you!



2500 Wilson Blvd.
Arlington, VA 22201 U.S.A.
Tel. 703-907-7600 Fax 703-907-7690
www.CE.org
CEA is the Sponsor, Producer and
Manager of the International CES®

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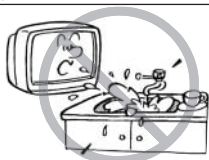


Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.



- 5) Do not use this apparatus near water.

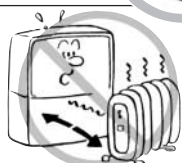


- 6) Clean only with a dry cloth.

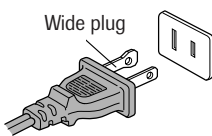
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.



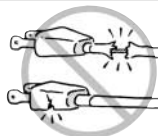
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



- 9) Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.



- 10) Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where it exits the apparatus.

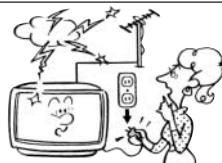


- 11) Only use attachments/accessories specified by the manufacturer.

- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.



- 14) Refer all servicing to qualified service personnel.

Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



- 15) **CAUTION:** To reduce the risk of electric shock, do not use the polarized plug with an extension cord, receptacle, or other outlet unless the blades can be inserted completely to prevent blade exposure.



Installation, Care, and Service

Installation

Follow these recommendations and precautions and heed all warnings when installing your TV:

- 16) Never modify this equipment. Changes or modifications may void: a) the warranty, and b) the user's authority to operate this equipment under the rules of the Federal Communications Commission.

- 17) **DANGER: RISK OF SERIOUS PERSONAL INJURY, DEATH, OR EQUIPMENT DAMAGE!** Never place the TV on an unstable cart, stand, or table. The TV may fall, causing serious personal injury, death, or serious damage to the TV.



- 18) Never place or store the TV in direct sunlight; hot, humid areas; areas subject to excessive dust or vibration; or locations with temperatures at or below 41°F (5°C).



- 19) Always place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit.



- 20) Never place items such as vases, aquariums, or candles on top of the TV.



- 21) Never block or cover the slots or openings in the TV cabinet back, bottom, and sides. Never place the TV:

- on a bed, sofa, rug, or similar surface;
- too close to drapes, curtains, or walls; or
- in a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation.



- in a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation.

The slots and openings are provided to protect the TV from overheating and to help maintain reliable operation of the TV.



- 22) Never allow anything to rest on or roll over the power cord, and never place the TV where the power cord is subject to wear or abuse.

- 23) Never overload wall outlets and extension cords.



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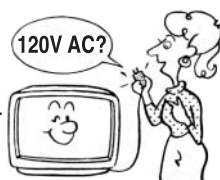
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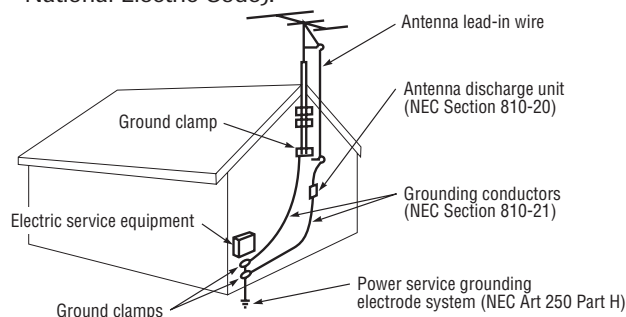
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- 24) Always operate this equipment from a 120 V AC, 60 Hz power source only.



- 25) Always make sure the antenna system is properly grounded to provide adequate protection against voltage surges and built-up static charges (see Section 810 of the National Electric Code).



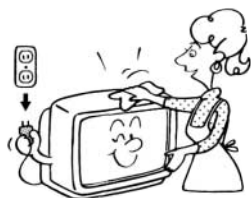
- 26) **! DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH!**
- Use extreme care to make sure you are never in a position where your body (or any item you are in contact with, such as a ladder or screwdriver) can accidentally touch overhead power lines. Never locate the antenna near overhead power lines or other electrical circuits.
 - Never attempt to install any of the following during lightning activity:
 - a) an antenna system; or b) cables, wires, or any home theater component connected to an antenna or phone system.

Care

For better performance and safer operation of your TOSHIBA TV, follow these recommendations and precautions:

- 27) Always sit approximately 10–25 feet away from the TV and as directly in front of it as possible. The picture can appear dull if you sit too far to the left or right of the TV, or if sunlight or room lights reflect on the screen. Turn the TV off to check for reflections on the screen, and then remove the source of reflections while viewing the TV.

- 28) Always unplug the TV before cleaning. Never use liquid or aerosol cleaners.



- 29) **! WARNING: RISK OF ELECTRIC SHOCK!** Never spill liquids or push objects of any kind into the TV cabinet slots.

- 30) [This item applies to projection TVs only.] If the air temperature rises suddenly (for example, when the TV is first delivered), condensation may form on the lenses. This can make the picture appear distorted or the color appear faded. If this happens, turn off the TV for 6 to 7 hours to allow the condensation to evaporate.

- 31) For added protection of your TV from lightning and power surges, always unplug the power cord and disconnect the antenna from the TV if you leave the TV unattended or unused for long periods of time.

- 32) During normal use, the TV may make occasional snapping or popping sounds. This is normal, especially when the unit is being turned on or off. If these sounds become frequent or continuous, unplug the power cord and contact a Toshiba Authorized Service Center.

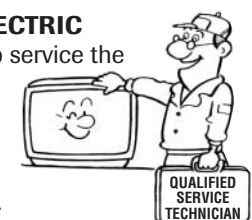


- 33) **Possible Adverse Effects on TV Picture Display:** If a fixed (non-moving) pattern or image remains on the TV screen for extended periods of time, the image can become permanently ingrained in the cathode ray tube(s) of the TV and cause subtle but permanent ghost images. **This type of damage is NOT COVERED BY YOUR WARRANTY.** Never leave the TV on for extended periods of time while it is displaying the following images or formats:

- **Fixed Images**, including but not limited to PIP/POP windows, closed captions, video game patterns, TV station logos, stock tickers, and websites.
- **Special Formats** that do not use the entire screen, including but not limited to widescreen or letterbox format media viewed on a 4:3 aspect ratio display (with gray or black bars at the top and bottom of the screen); or 4:3 aspect ratio format media viewed on a widescreen/16:9 aspect ratio display (with gray or black bars on the left and right sides of the screen).

Service

- 34) **! WARNING: RISK OF ELECTRIC SHOCK!** Never attempt to service the TV yourself. Opening and removing the covers may expose you to dangerous voltage or other hazards. Refer all servicing to a Toshiba Authorized Service Center.



- 35) If you have the TV serviced:

- Ask the service technician to use only replacement parts specified by the manufacturer.
- Upon completion of service, ask the service technician to perform routine safety checks to determine that the TV is in safe operating condition.



- 36) When the TV reaches the end of its useful life, ask a qualified service technician to properly dispose of the TV. Improper disposal may result in a picture tube implosion and possible personal injury.

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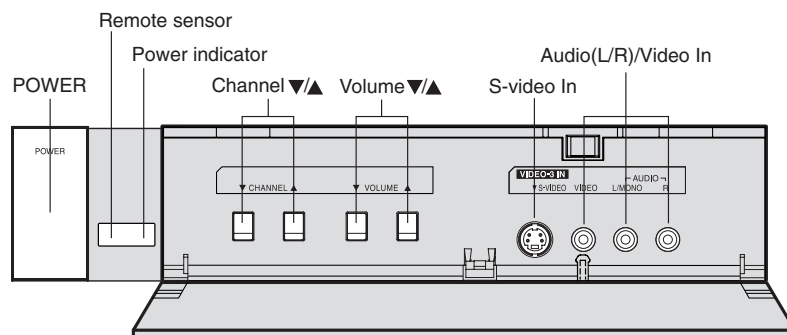
Congratulations! You have purchased one of the finest color TVs on the market. The goal of this manual is to guide you through setting up and operating your Toshiba TV as quickly as possible. You may need to purchase other audio or video cables to connect your equipment. See "Connecting your TV" on page 7 for more information. Please read all the safety and operating instructions carefully before you begin.

Exploring your new TV

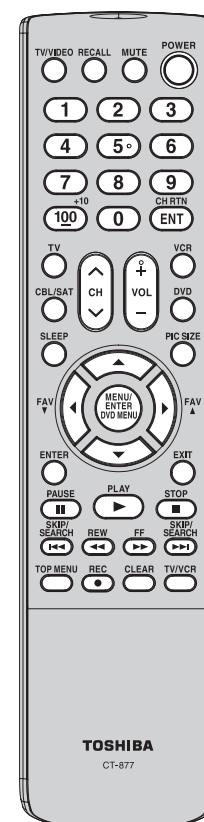
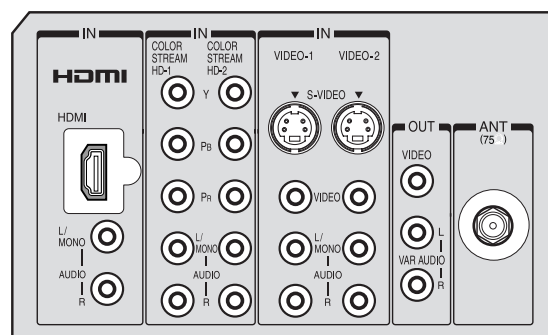
You can operate your TV by using the buttons on the front panel or the remote control. The front and back panels provide all the inputs you will need to connect other equipment to your TV.

The STARTING SETUP feature appears the first time you turn on the TV. See page 21 for details.

TV front panel



TV back panel

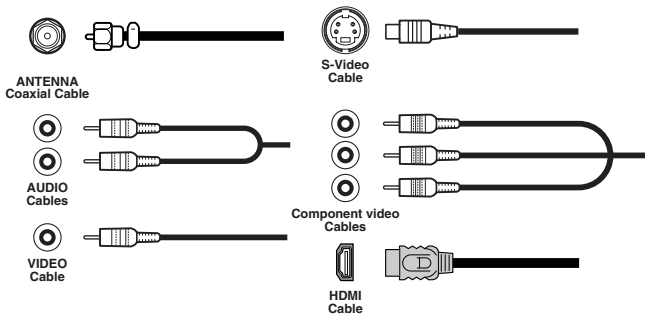


Selecting a location for the TV

- Place the TV on the floor or on a sturdy platform in a location where light does not directly hit the screen.
- Place the TV far enough from the walls to allow proper ventilation. Inadequate ventilation may cause overheating, which may damage the TV.

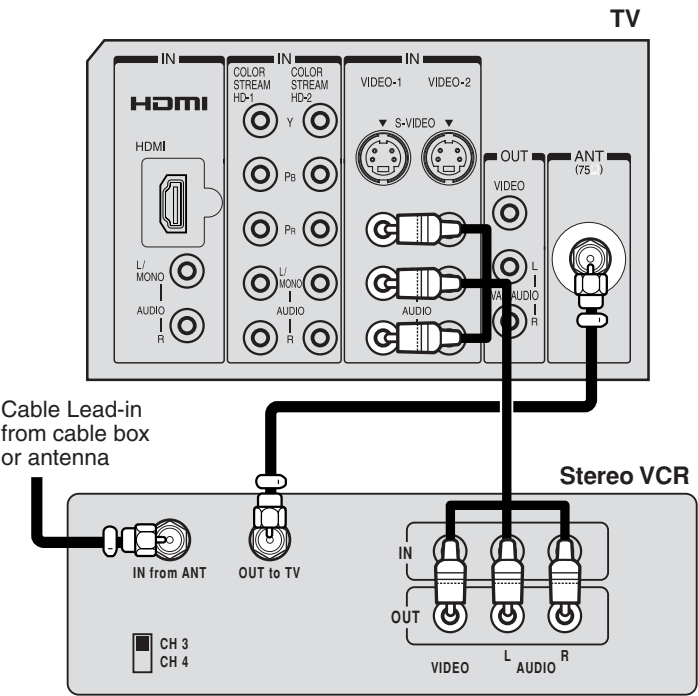
Connecting your TV

- A coaxial cable is the standard cable that comes in from your antenna or cable converter box. Coaxial cables use “F” connectors.
- Standard A/V (audio/video) cables are usually color coded according to use: yellow for video and red and white for audio. The red audio cable is for the stereo right channel, and the white audio cable is for the stereo left (or mono) channel. If you look at the rear panel of the TV, you will see that the terminals are color coded in the same manner as the cables.
- S-video cables provide better picture performance than standard video cables. S-video cables can only be used with S-video compatible components.
- Component video cables provide better picture performance than S-video cables. Component video cables can only be used with component video compatible components.
- HDMI (High Definition Multimedia Interface) cable is for use with video equipment that has HDMI output (see page 14).



Connecting a VCR

This connection allows you to watch local channels and video programs, play or record on the VCR while watching TV, and record from one channel while watching another channel.



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NEVER CONNECT THIS TV TO A PERSONAL COMPUTER (PC).
This TV is not intended for use with a PC.



NOTICE: RISK OF EQUIPMENT DAMAGE!

Do not plug in any power cords until you have finished connecting all equipment.

- You will need:
- two coaxial cables
 - one set of standard A/V cables

Note:

If using a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable. For better picture quality, if your VCR has S-video, you can use an S-video cable instead of the standard video cable. Do not connect a standard video cable and an S-video cable to VIDEO-1 (or VIDEO-2) simultaneously.

The unauthorized recording, use, distribution or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

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Connecting a cable converter box or Antenna

This television has an extended tuning range and can tune most cable channels without using a cable company supplied converter box. Some cable companies offer “premium pay channels” in which the signal is scrambled. Descrambling these signals for normal viewing requires the use of a descrambler device, which is generally provided by the cable company.

Option 1 : For Subscribers to Basic Cable TV Service

For basic cable service not requiring a Converter/Descrambler box, connect the incoming 75 ohm Coaxial Cable directly to the Antenna Jack on the back of the television.

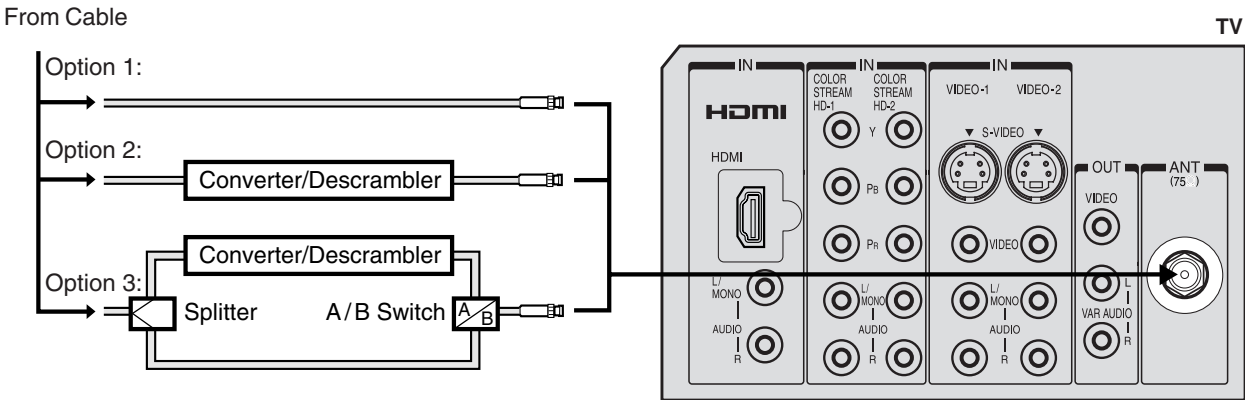
Option 2 : For Subscribers to Scrambled Cable TV Service

If you subscribe to a cable service that requires the use of a Converter/Descrambler box, connect the incoming cable to the Converter/Descrambler box and connect the output of the box to the Antenna Jack on the back of the television. Follow the connections shown below. Set the television to the output of the Converter/Descrambler box (usually channel 3 or 4) and use the Converter/Descrambler box to select channels.

Option 3 : For Subscribers to Unscrambled Basic Cable with Scrambled Premium Channels

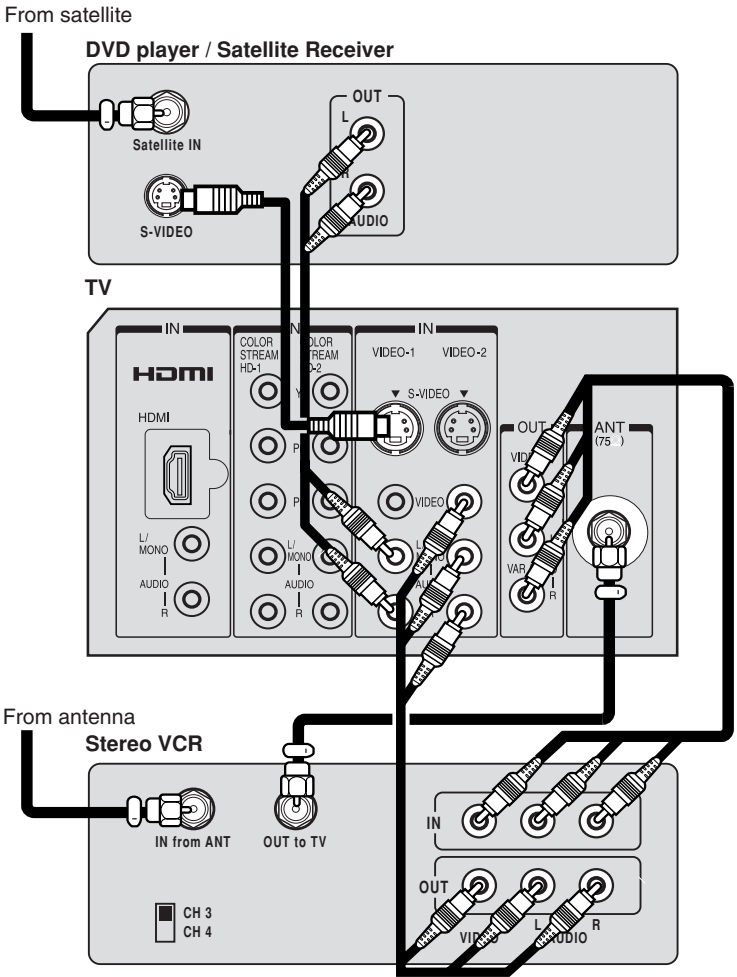
If you subscribe to a cable service in which basic cable channels are unscrambled and premium channels require the use of a Converter/Descrambler box, you may wish to use a two-set signal splitter (sometimes called a “two-set coupler”) and an A/B Switch box from the cable installer or an electronics supply store. Follow the connections shown below. With the switch in the “B” position, you can directly tune any unscrambled channels on your TV. With the switch in the “A” position, tune your TV to the output of the Converter/Descrambler box (usually channel 3 or 4) and use the box to tune scrambled channels.

Note:
When you use a converter box with your TV, there may be features that you cannot program using the remote control, such as labeling channels, blocking channels, and programming your favorite channels.



Connecting a DVD player/satellite receiver and a VCR

This connection allows you to watch DVD/satellite, VCR, or TV programs. You can record from the satellite receiver and TV, as well as record one TV channel while watching another channel.



- You will need:
- three coaxial cables
 - two sets of standard A/V cables
 - one S-video cable
 - one pair of standard audio cables

Note:
You can use a standard video cable instead of the S-video cable, but the picture quality will decrease. If you use an S-video cable between the TV and DVD player/satellite receiver, make the audio connections but remove the standard video cable. Do not connect both an S-video and a standard video cable to VIDEO1 (or VIDEO2) at the same time or the picture performance will be unacceptable.

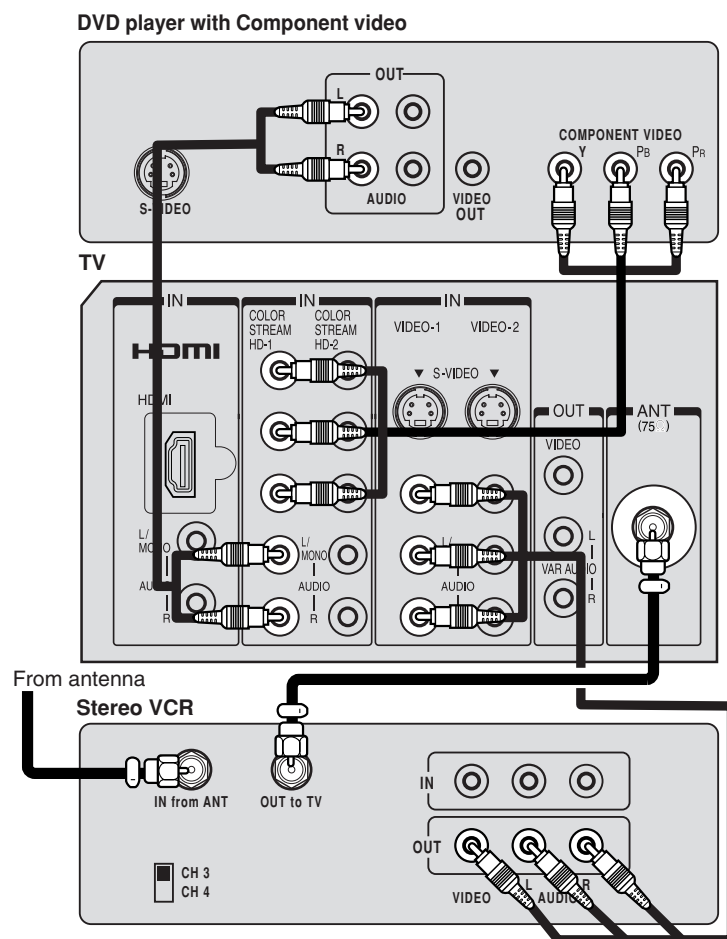
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Connecting a DVD player with ColorStream® (component video) and a VCR

This connection allows you to watch DVD, VCR, or TV programs and record TV programs. You can record from one source while watching a program from another source. Your TV is capable of using ColorStream (component video.) Connecting your TV to a component video compatible DVD player, such as a Toshiba DVD player with ColorStream®, can greatly enhance picture quality and performance.

Connecting
your TV



You will need:

- two coaxial cables
- one set of standard A/V cables
- one set of component video cables
- one pair of standard audio cables

Note:

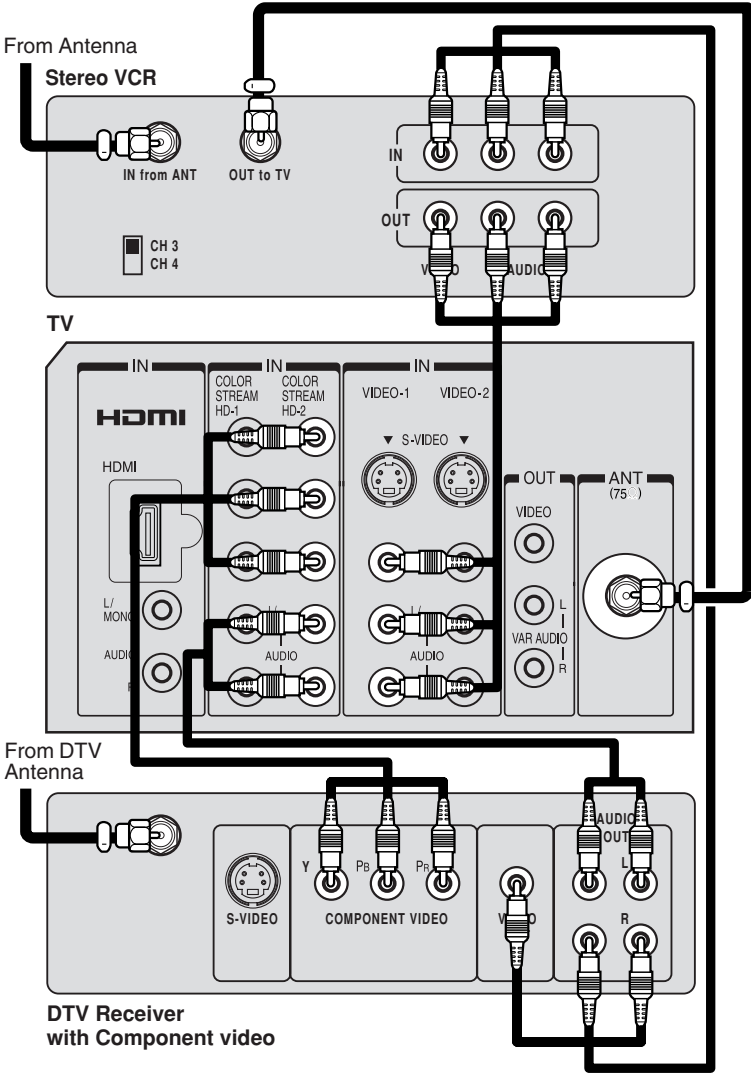
You can connect the component video cables to either set of ColorStream jacks on the TV (HD-1 or HD-2.)

The ColorStream HD-1 and HD-2 jacks can be used with Progressive (480p, 720p) and Interlaced (480i, 1080i) scan systems. A 1080i signal will provide the best picture performance.

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Connecting a DTV receiver / set-top box with ColorStream® (component video) and a VCR

This connection allows you to watch DTV (digital TV), VCR, and TV programs, and record DTV and TV programs. Your TV has ColorStream® (component video) inputs. Connecting your TV to a DTV receiver with component video can greatly enhance picture quality and realism.



- You will need:
- three coaxial cables
 - two sets of standard A/V cables
 - one set of standard audio cables
 - one set of component video cables

Note:
You can connect the component video cables to either set of ColorStream jacks on the TV (HD-1 or HD-2.) For HDMI connection see page 14.
The ColorStream HD-1 and HD-2 jacks and HDMI jacks can be used with Progressive (480p, 720p) and Interlaced (480i, 1080i) scan systems. A 1080i signal will provide the best picture performance.
If your DTV receiver does not have component video, use the S-video and standard audio connections instead. Do not connect both an S-video and a standard video cable to VIDEO1 (or VIDEO2) at the same time or the picture performance will be unacceptable.

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Connecting two VCRs

This connection allows you to record (dub/edit) from one VCR to another VCR.
You will also be able to record from one TV channel while watching another channel.

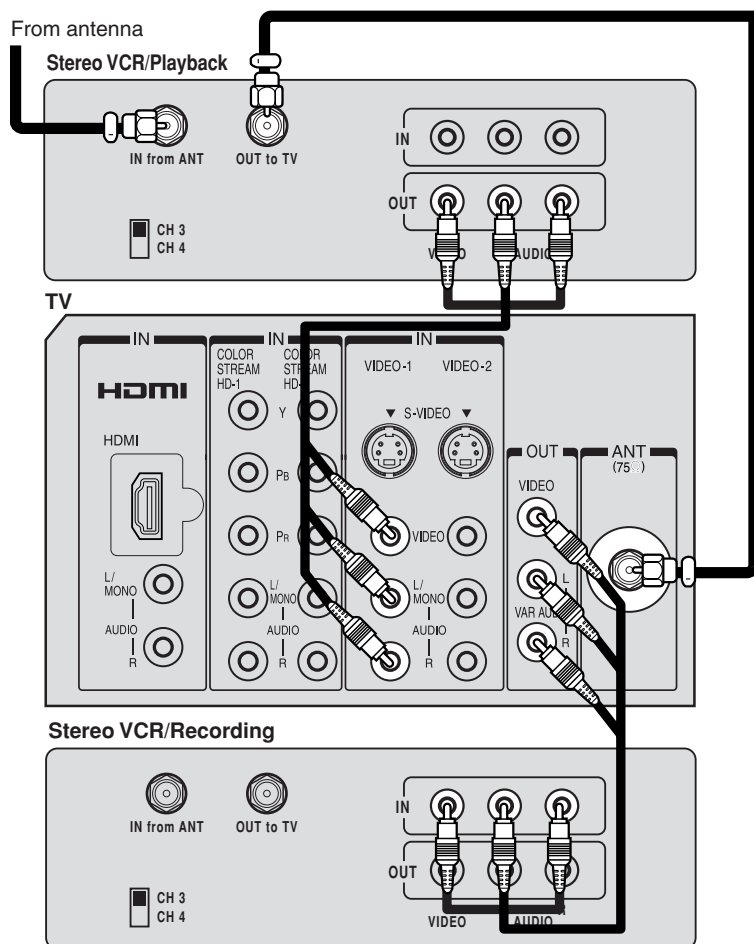
You will need:

- two coaxial cables
- two sets of standard A/V cables

Note:

Do not connect the same VCR to the output and input jacks on the TV at the same time. For better picture quality, if your VCR has S-video, you can use an S-video cable instead of the standard video cable. Do not connect a standard video cable and an S-video cable to VIDEO-1 (or VIDEO-2) simultaneously.

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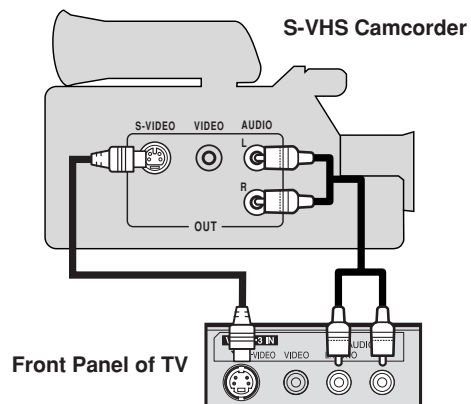


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Connecting a camcorder

This connection allows you to watch videos recorded on a camcorder.



You will need:

- one S-video cable
- one pair of standard audio cables

Note:

For better picture quality, if your camcorder has S-video, you can use an S-video cable (plus the standard audio cables) instead of a standard video cable.

Do not connect both a standard video cable and an S-video cable at the same time, or the picture performance will be unacceptable.

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Connecting an HDMI™ or a DVI device to the HDMI input

The HDMI^[1] input on your TV receives digital audio and uncompressed digital video from an HDMI device or uncompressed digital video from a DVI^[2] device.

This input is designed to accept HDCP^[3] program material in digital form from EIA/CEA-861/861B-compliant^[4] consumer electronic devices (such as a set-top box or DVD player with HDMI or DVI output.)

The HDMI input is designed for best performance with high definition video signals. It will accept and display 480i, 480p, 720p and 1080i signals.



NEVER CONNECT THIS TV TO A PERSONAL COMPUTER (PC.) This TV is not intended for use with a PC.

To connect an HDMI device, you will need:

- one HDMI cable (type A connector)

For proper operation, it is recommended that you use as short an HDMI cable as possible. You should not encounter difficulty if you use an HDMI cable that is shorter than 16.4 ft (5m.)

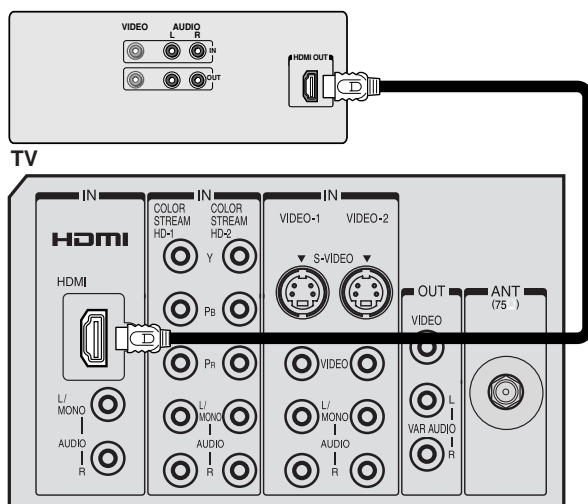
HDMI cable transfers both video and audio. Separate analog audio cables are not required (see illustration below.)

You must set the HDMI audio input setting to “HDMI” in the AUDIO menu (see page 39.)

Some CDVs (Video CDs) may not output digital audio signals. In that case, you may hear sound by connecting analog audio cables. If you do use analog audio cables for this reason, you will need to set the HDMI audio input setting to “DVI” to hear the analog audio (see page 39.)

Note: If you connect an HDMI device and analog audio cables and play media with digital audio output, to hear digital audio you must set the HDMI audio input setting to “HDMI” (page 39.)

HDMI device



[1] HDMI = High-Definition Multimedia Interface.

[2] DVI = Digital Video Interface.

[3] HDCP = High-bandwidth Digital Content Protection.

[4] EIA/CEA-861/861B compliance covers the transmission of uncompressed digital video with high-bandwidth digital content protection, which is being standardized for reception of high-definition video signals. **Because this is an evolving technology, it is possible that some devices may not operate properly with the TV.**

To ensure that the HDMI or DVI device is reset properly, it is recommended that you follow these procedures:

- When turning on your electronic components, **turn on the TV first**, and then the HDMI or DVI device.
- When turning off your electronic components, **turn off the HDMI or DVI device first**, and then the TV.

To connect a DVI device, you will need:

- one HDMI-to-DVI adapter cable (HDMI type A connector)

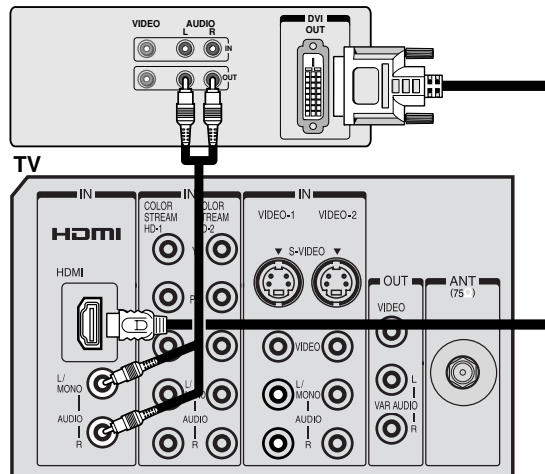
For proper operation, the length of an HDMI-to-DVI adapter cable should not exceed 9.8 ft (3m.) The recommended length is 6.6 ft (2m.)

- one pair of standard analog audio cables

An HDMI-to-DVI adapter cable transfers only video. Separate analog audio cables are required (see illustration below.)

You must set the HDMI audio input setting to “DVI” in the AUDIO menu (see page 39.)

DVI device



HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC.

Connecting an audio system

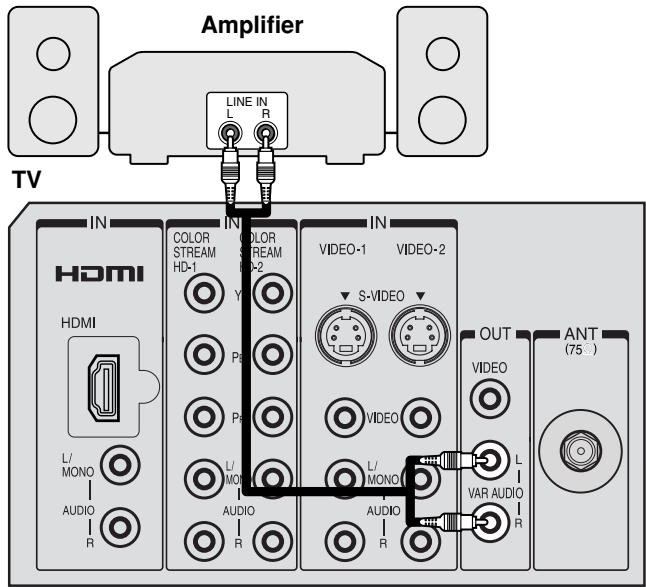
This connection allows you to use an audio amplifier and external speakers, and adjust the audio level using the TV's remote control. To control the audio, turn on the TV and the stereo amplifier, and turn off the TV's built-in speakers (see "Turning off the built-in speakers" on page 39.)

Note:

To hear sound when using an external audio amplifier, the volume of both the TV and the amplifier must be set above 0 (zero.)
For example, if the volume of the TV is set to 0, you will not be able to hear any sound, even the volume of the amplifier is at its highest level.

You will need:

- one pair of standard audio cables



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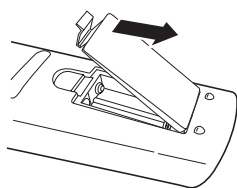
Preparing the remote control for use

With the remote control, you can operate your TV, most cable TV converters/satellite receivers, VCRs, and DVD players together, even if they are different brands. If you will be using your TV with a Toshiba satellite receiver, VCR, or DVD player, your remote control is already programmed and ready to use. If you own different brands of cable TV converters/satellite receivers, VCRs, and/or DVD players, you must first program your remote control. (See "Programming the remote control to operate your other devices," on page 17.)

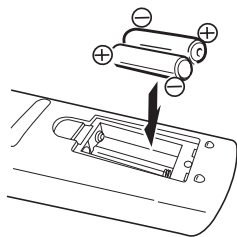
Installing the remote control batteries

To install the batteries:

1. Open the battery cover on the back of the remote control.



2. Install two "AAA" size batteries. Match the + and - signs on the batteries to the signs on the battery compartment.



3. Close the battery cover on the remote control until the lock snaps.

Note:

The TV remote control may not operate your VCR, DVD player, or cable TV converter. Refer to the owner's manual supplied with your other devices to see which features may be available. Additionally, the remote control for this TV may not support certain features available on the original remote controls for your other devices, in which case it is suggested that you use the original remote control for the applicable device.

Caution:

- Never throw batteries into a fire.

Notes:

- Be sure to use AAA size batteries.
- Dispose of batteries in a designated disposal area.
- Batteries should always be disposed of with the environment in mind. Always dispose of batteries in accordance with applicable laws and regulations.
- If the remote control does not operate correctly, or if the operating range becomes reduced, replace batteries with new ones.
- When necessary to replace batteries in the remote control, always replace both batteries with new ones. Never mix battery types or use new and used batteries in combination.
- Always remove batteries from remote control if they are dead or if the remote control is not to be used for an extended period of time. This will prevent battery acid from leaking into the battery compartment.

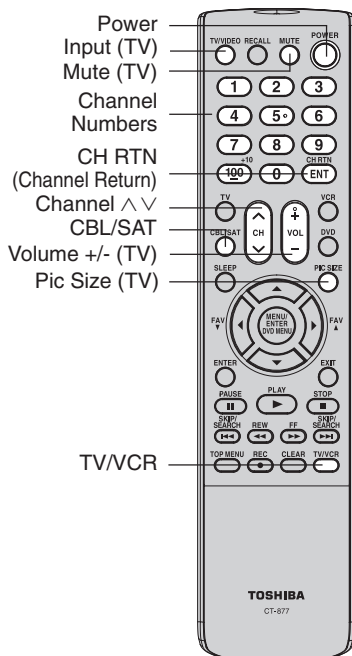
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Using the remote control to operate your other devices

To control a cable TV converter/satellite receiver:

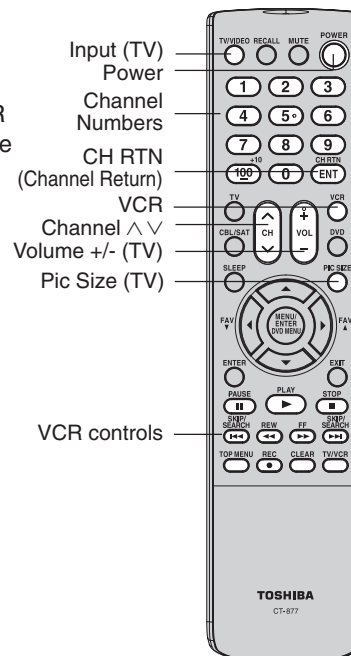
Program the remote control to recognize the brand of your cable TV converter/satellite receiver (see "Programming the remote control to operate your other devices" on page 17.) The buttons shown at right will then control the cable TV converter/satellite receiver.

Press "CBL/SAT" first.



To control a VCR:

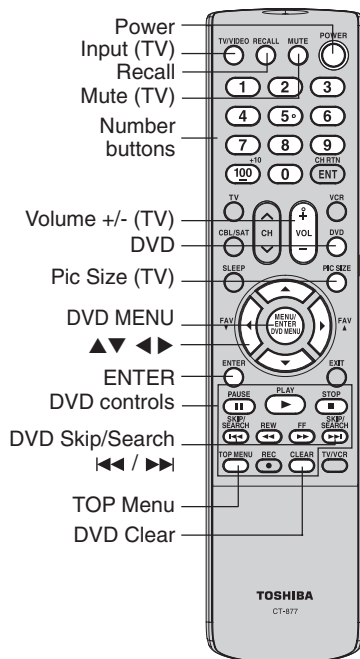
Program the remote control to recognize the brand of your VCR (see "Programming the remote control to operate your other devices" on page 17.) The buttons shown at right will then control the VCR. Press "VCR" first.





To control a DVD player:

Program the remote control to recognize the brand of your DVD player (see “Programming the remote control to operate your other devices” below.) The buttons shown at right will then control the DVD player. Press “DVD” first.



Programming the remote control to operate your other devices

This remote control is pre-programmed to operate most Toshiba satellite receivers, VCRs, and DVD players. To control a non-Toshiba device (or a Toshiba device that the remote control is not pre-programmed to operate),

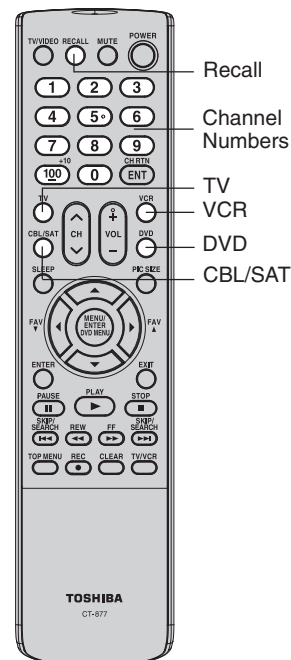
1. Refer to the code tables (on pages 18 and 19) to find the corresponding code for your device.
If more than one code is listed, try each one separately until you find the one that works.
2. If you are programming the remote control to operate your:
 - Cable TV converter/satellite receiver: Press “CBL/SAT.”
 - VCR: Press “VCR.”
 - DVD player: Press “DVD.”
3. While holding down RECALL, press the Channel Number buttons to enter the three-digit code for your device within 10 seconds.
Note: If you do not enter the code within 10 seconds from step 3, or if you enter the wrong code, this operation is canceled.
4. Point the remote control at the cable TV converter/satellite receiver, VCR or DVD player, and press POWER to test the code.
 - If the device responds, you entered the correct code.
 - If the device does not respond, repeat steps 1–4 using another code.
5. Press “TV” to control the TV.

For future reference, write down the codes you used:

Cable TV converter/satellite receiver code _____

VCR code _____

DVD player code _____



Notes:

- When shipped from the factory, the remote control is set to operate your TV.
- Each time you replace the batteries, you must reprogram the remote control.
- Some newer VCRs are capable of working on either of two remote codes. These VCRs have a switch labeled “VCR1/VCR2.” If your VCR has this kind of switch and does not respond to any of the codes for your VCR, set the switch to the other position (VCR1 or VCR2) and reprogram the remote control.

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Device code tables

[For CBL/SAT Mode]

CABLE Box

Brand	Code	Brand	Code	Brand	Code
ABC	061, 062, 063, 082, 084, 087, 091, 092, 096, 098	Jerrold	062, 069, 071, 082, 086, 089, 091, 096	Scientific Atlanta	063, 078, 079, 080, 088, 098, 101, 105
Archer	065, 092, 097, 099	Magnavox	072, 096	Sears	095
Cableview	064, 094	Memorex	091, 092, 104	Signature	062
Century	092	Multi Canal	090	Signature 2000	096
Citizen	090, 092, 097	Novavision	101	Sprucer	081, 085
Contec	083, 085, 086, 088, 093, 098	Panasonic	081, 083, 085	Starcom	069, 082, 087, 096, 103, 104
Diamond	093	Philco	087	Stargate	069, 090
Eagle	091	Philips	066, 067, 068, 070, 072, 073, 074, 075, 091, 092	Sylvania	095, 100
GE	061, 062	Pioneer	076, 077	TeleView	090
Gemini	069, 070, 094	Proscan	061, 062	Texscan	100
General Instruments	062, 089, 096	Radio Shack	092, 097, 099	Tocom	071, 084, 085
Hamlin	093	RCA	064, 081	U. S. Electronics	087, 096, 098
Hitachi	062, 095, 096	Realistic	065	United Cable	082
Jasco	097	Recoton	102	Universal	065, 092, 097, 099, 102, 103
		Samsung	077, 090	Wards	096

Satellite

Brand	Code	Brand	Code	Brand	Code
Alphastar	038, 059	Hughes Network	019	Realistic	030
Chaparral	034	Systems		Samsung	059
DISH Network	057	Intersat	048	Sony	014, 055
Drake	020, 040, 044, 046, 050, 053	Janeil	027	Star Choice	057
Echostar	018, 041, 051	JVC	017, 057	Star Trak	025, 026, 037, 054
Express Vu	057	Kenwood	029	STS	024
Fujitsu	027	Magnavox	060	Toshiba	000, 001, 002, 003, 004, 005, 006, 007, 020, 031, 056
GE	008, 009, 013	Optimus	058		
General Instruments	010, 011, 012, 022, 023, 031, 049	Pansat	036, 052	Uniden	021, 028, 030, 032, 035, 039, 043, 045, 047, 058
Hitachi	033	Primestar	015, 042	Zenith	027
Hughes	033	Proscan	008, 009, 013		
		Radio Shack	022, 023, 030		
		RCA	008, 009, 013, 016		

[For VCR Mode]

VCR

Brand	Code	Brand	Code	Brand	Code
Admiral	049	Fuji	004, 041	Marantz	005, 006, 007, 012, 014, 026, 053, 067
Aiko	019	Funai	018, 073	Memorex	007, 009, 010, 016, 018, 034, 049, 063, 065, 066, 068, 075, 079
Aiwa	018	Garrard	018	MGA	020, 028, 039
Akai	003, 004, 037, 038, 039, 058, 069	GE	001, 002, 009, 040, 042, 048, 056	MGN	056
Audiovox	010	Go Video	056, 059, 061, 081	Minolta	024, 025, 035, 063
Bell & Howell	007, 068	Goldstar	005, 010, 014, 054, 056, 065, 067	Mitsubishi	020, 024, 025, 028, 039, 043, 065
Broksonic	008, 017	Gradiente	018, 065	Montgomery Ward	049
Calix	010	Harman Kardon	005	Motorola	049
Carver	026	Hitachi	024, 025, 035, 037, 042, 063, 070, 080	MTC	009, 046, 061
CCE	019	JBL	076	Multitech	009, 012, 018
Citizen	009, 010, 011, 012, 013, 014, 015, 019, 057, 073	JC Penney	005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065	NEC	005, 006, 007, 012, 014, 037, 043, 053, 054, 067, 070
Colortyme	005	Jensen	024, 025, 037	Nikko	010
Craig	009, 010, 016, 061, 065, 079	JVC	005, 006, 007, 014, 037, 043, 062, 063, 068, 082	Noblex	009
Curtis Mathes	001, 005, 009, 012, 014, 040, 048, 053, 056, 057	Kenwood	005, 006, 007, 012, 014, 037, 043, 053, 068, 071	Optimus	010, 049, 065
Daewoo	011, 013, 015, 017, 018, 019, 057, 078	Kodak	010	Optonica	031
Daytron	078	LG	010	Orion	054, 057, 062, 065, 068, 072
Denon	063	Lloyds	053, 073, 079	Panasonic	036, 045, 046, 057, 061, 072, 079
Dimensia	001, 048	Logik	061	Pentax	012, 024, 025, 035, 042, 053, 063
Electrohome	010, 020, 065	LXI	010	Pentex Research	014
Emerson	003, 008, 010, 011, 017, 018, 020, 028, 039, 054, 057, 062, 065, 068, 072	Magnasonic	061, 065, 078	Philco	026, 027, 063
Fisher	007, 016, 021, 022, 023, 057, 064, 068, 070, 071, 079	Magnavox	026, 027, 034, 044, 057, 061, 072	Philips	026, 031, 044, 057
				Pioneer	006, 024, 043, 055

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VCR (Continued)

Brand	Code	Brand	Code	Brand	Code
Portland	012, 013, 015	Sanyo	007, 009, 016, 054, 064, 068, 071, 075, 079, 085	Tashiko	010
Proscan	001, 002, 048			Tatung	037
Proton	061			Teac	018, 029, 037
Quasar	045	Scott	008, 011, 017, 028, 030, 057, 065, 072	Technics	036
Radio Shack	010, 031, 065			Teknika	010, 018, 065
Radio Shack/Realistic	007, 009, 010, 016, 018, 020, 021, 022, 031, 049	Sears	007, 010, 016, 021, 022, 023, 024, 025, 035, 053, 057, 063, 064, 065, 068, 071, 075, 079	Toshiba	000, 011, 021, 023, 024, 028, 030, 039, 057, 074, 078, 079
Radix	010			Totevision	009, 010, 065
RCA	001, 002, 003, 009, 024, 025, 029, 035, 040, 042, 045, 048, 055, 056, 063, 071, 083	Sharp	013, 020, 031, 049, 051, 060, 066	Unitec	073
		Shintom	004, 025, 032, 061	Unitech	009
Realistic	007, 009, 010, 011, 016, 018, 020, 021, 022, 031, 049, 051, 056, 060, 065, 075, 079	Signature	049	Vector Research	005, 006, 011, 012, 053
		Signature 2000	075	Video Concepts	005, 006, 011, 012, 039, 053
		Singer	047, 061	Wards	009, 010, 011, 016, 018, 020, 024, 025, 031, 035, 049, 051, 056, 057, 060, 065, 066, 079
Ricoh	047	Sony	004, 032, 033, 041, 052, 058, 070, 074, 076, 077, 080	White Westinghouse	073
Runco	034	STS	035	XR-1000	018
Samsung	009, 011, 038, 056, 073, 084	Sylvania	018, 026, 027, 028, 044, 072	Yamaha	005, 006, 007, 014, 037, 053
Sansui	006, 037, 043, 061	Symphonic	018, 051, 053, 073, 079	Zenith	004, 032, 034, 041, 047, 069, 086
		Tandy	007		

TV/VCR Combo

Brand	Code	Brand	Code	Brand	Code
Action	078	Precision	078	Toshiba	057
GE	059, 062	Quasar	065	Zenith	065
Goldstar	065	Realistic	079	Totevision	009, 010, 065
Panasonic	065	Sony	074		

[For DVD Mode] DVD

Brand	Code	Brand	Code	Brand	Code
Aiwa	006, 015	Kenwood	037	Sampo	060
Apex	016, 017	Konka	008, 009	Samsung	061, 062, 086, 090
BOSE	097	Magnavox	004, 038	Sansui	073
Broksonic	018	Memorex	039	Sanyo	063, 091
Clarion	019	Mintek	040	Sharp	064, 067
Classic	020	NAD	026	Sherwood	074
Daewoo	021	Nakamichi	041	Sony	011, 012, 065, 066, 068, 069, 070
Denon	022, 023, 024, 025	Norcent	043		
Emerson	026, 027	Onkyo	044	Sylvania	027
Fisher	028	Oritron	058	Teac	071
Funai	027	Panasonic	010, 045, 046, 047, 048, 049, 050	Technics	072
GE	001, 029, 030			Techwood	075
Go Video	087	Philips	004, 051	Toshiba	000, 013, 076, 077, 078
GPX	031	Pioneer	052, 053, 054, 055		
Hitachi	005, 032, 033, 034, 035	Proscan	001, 056	Yamaha	079, 080, 081
JVC	003, 007, 036, 042, 088	Qwestar	057, 058	Zenith	014, 082, 092
		RCA	001, 002, 059, 089		

Portable DVD

Brand	Code	Brand	Code	Brand	Code
Aiwa	093	Panasonic	024, 096, 099	RCA	098
Audiovox	094, 095				

HTIB

Brand	Code	Brand	Code	Brand	Code
Lasonic	083	Panasonic	084	Venturer	085

[For VCR and DVD Mode] DVD/VCR Combo

Brand	VCR Code	DVD Code	Brand	VCR Code	DVD Code
Go Video	081	087	Samsung	084	090
JVC	082	088	Sanyo	085	091
RCA	083	089	Zenith	086	092

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Learning about the remote control

POWER turns the TV on and off

SLEEP programs the TV to turn off at a set time (page 37)

TV/VIDEO selects the video input source (page 26)

CH \wedge / \vee cycles through programmed channels (page 22)

TV selects TV mode

CBL/SAT selects CBL/SAT mode (page 16)

VCR selects VCR mode (page 16)

DVD selects DVD mode (page 17)

CHANNEL NUMBERS allow direct access to channels (page 23)

VOL +/- adjusts the volume level

CH RTN (Channel Return) cycles through the channels you programmed as favorite channels (page 23)

MENU/ENTER accesses the menu system; also sets menu selections (page 21)

FAV \blacktriangle / \blacktriangledown (Favorite Channels) cycles through the channels you programmed as favorite channels (page 23)

MUTE turns off the sound (page 37)

RECALL displays status information on-screen (page 25)

EXIT closes on-screen menus (page 21)

PIC SIZE cycles through the five picture sizes: Natural, TheaterWide 1, 2, 3, and full (page 30)

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STOP stops a videotape/DVD

REC starts recording a videotape

PLAY plays a videotape/DVD

FF fast forwards a videotape/DVD

REW rewinds a videotape/DVD

PAUSE pauses a videotape/DVD

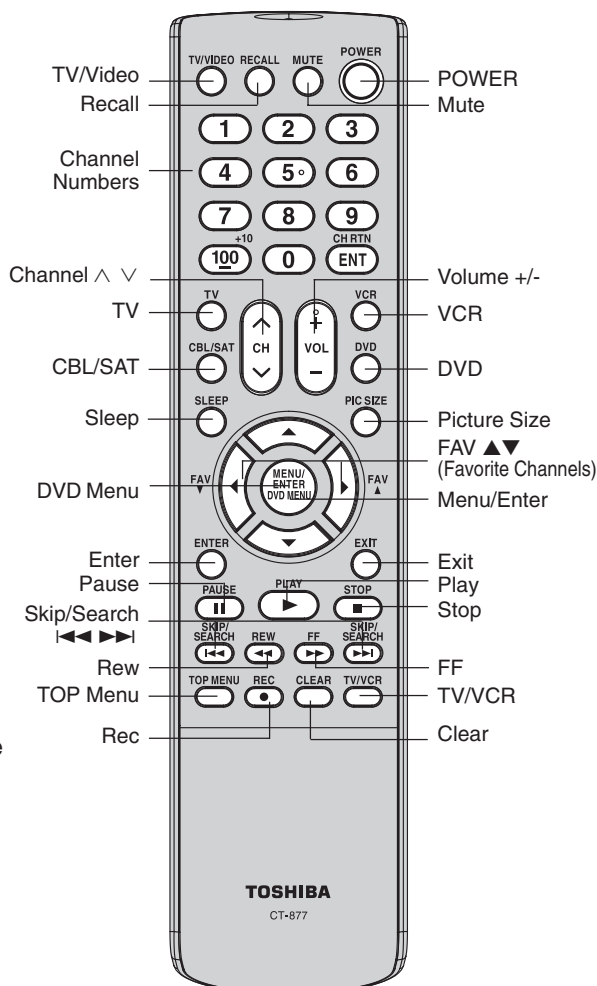
TV/VCR toggles between TV and VCR modes when viewing while recording

DVD SKIP/SEARCH \ll \gg skips DVD chapter

DVD CLEAR clears input data in DVD mode

TOP MENU access the DVD TOP menu

DVD MENU access the DVD menu



Setting up your TV

After you have installed the batteries and programmed the remote control, you need to set some preferences on the TV using the menu system. You can access the menu system with the buttons on the remote control.

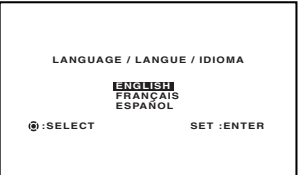
- When you make a menu selection, your changes occur immediately. You do not have to press MENU or EXIT to save your changes.
- After 15 seconds, the menu screen will automatically close if you do not make a selection. Your changes will still be saved.
- When you are finished programming the menus, press EXIT.

Starting setup

The STARTING SETUP feature appears the first time you turn on the TV, and helps you select the menu language, specify the TV/CABLE setting, and program channels automatically.

IMPORTANT: You must connect an antenna or cable TV system first. See “Connecting your TV” on pages 7-15 for details.

1. Press POWER to turn on the TV.
The starting setup function begins and the language setup menu appears on the screen. Press ▲ or ▼ to select your desired language, then press ENTER.
2. Press ▲ or ▼ to select “TV” or “CABLE,” then press ENTER.
3. Press ▲ or ▼ to select “START,” then press ENTER. If you select “CANCEL” and press ENTER, the STARTING SETUP stops and changes to the TV screen.
4. Now the “AUTO SETUP” starts. After the starting setup is completed, the TV channel appears on the screen.
 - If you press the EXIT button during the “AUTO SETUP” process, the STARTING SETUP stops and changes to the TV screen.

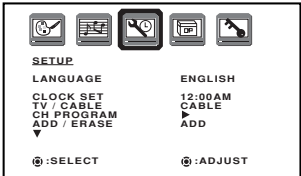


Changing the on-screen display language

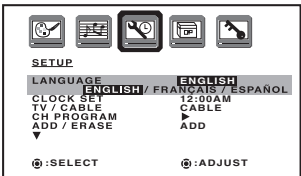
You can choose from three different languages (English, French, and Spanish) for the on-screen displays of adjustment menus and messages.

To select a language:

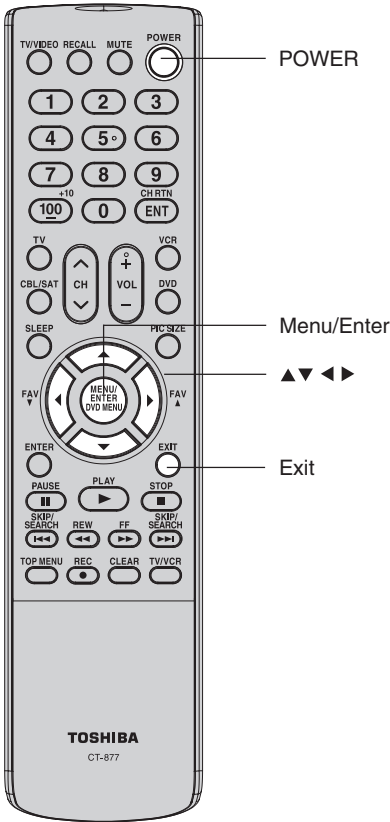
1. Press MENU, then press ◀ or ▶ until the SETUP menu appears.



2. Press ▲ or ▼ to highlight LANGUAGE.



3. Press ◀ or ▶ to highlight your desired language.



Note:

The position and size of the on-screen menus change for some program formats (such as 1080i or 720p.)

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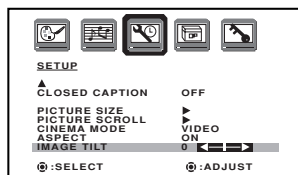


Image tilt correction

When you install or change the direction of the TV, the picture may become tilted (caused by the Earth's magnetism.) If this happens, use the image tilt correction feature to obtain the best possible picture.

To adjust the image tilt:

1. Press MENU, then press ◀ or ▶ until the SETUP menu appears.
2. Press ▲ or ▼ to highlight IMAGE TILT.
3. Press ◀ or ▶ to adjust the picture tilt (from -10 to 10.)



Adding channels to the TV's memory

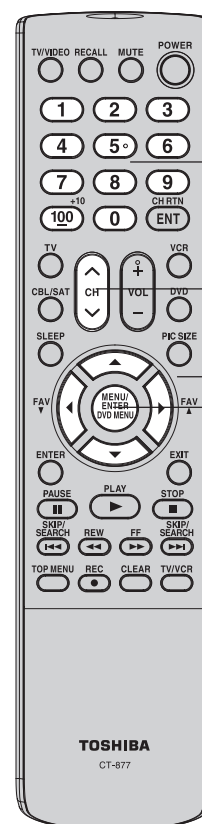
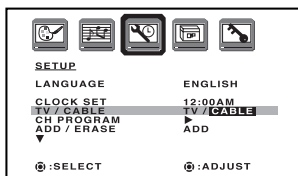
When you press CH ▲ or ▼, your TV will stop only on the channels you have programmed into the TV's channel memory. Follow the steps below to program channels into the channel memory.

Programming channels automatically

Your TV can automatically detect all active channels and store them in its memory. After the TV has stored the channels in its memory automatically, you can add or erase channels manually.

To add channels automatically:

1. Press MENU, then press ◀ or ▶ to display the SETUP menu.
2. Press ▲ or ▼ until the TV/CABLE selection is highlighted.
3. Press ◀ or ▶ to highlight either TV or CABLE, depending on which you use.
If you use an antenna, choose TV.
If you use cable, choose CABLE.
4. Press ▼ until the CH PROGRAM selection is highlighted.
5. Press ◀ or ▶ to start channel programming. The TV will automatically cycle through all the TV or Cable channels (depending on which you selected), and store all active channels in the channel memory. While the TV is cycling through the channels, the message "PROGRAMMING NOW-PLEASE WAIT" appears.
6. When channel programming is complete, the message "COMPLETED" appears.
7. Press CH ▲ or ▼ to view the programmed channels.



Channel Numbers

Channel ▲ ▼

Menu

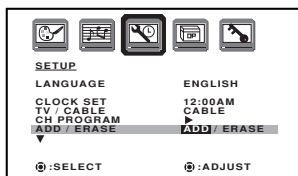
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Adding and erasing channels manually

After you have programmed the channels automatically, you can add or erase specific channels manually.

To add or erase channels manually:

1. Select the channel you want to add or erase. If you are adding a channel, you must select the channel using the Channel Number buttons.
2. Press MENU, then press ◀ or ▶ to display the SETUP menu.
3. Press ▲ or ▼ to highlight ADD/ERASE.
4. Press ◀ or ▶ to select ADD or ERASE, whichever function you want to perform.
5. Repeat steps 1-4 for other channels you want to add or erase.





Changing channels

To change to the next programmed channel:

Press Channel ∇/\blacktriangle on the TV or CH \wedge/\vee on the remote control.

To change to a specific channel (programmed or unprogrammed):

Press the Channel Number buttons (0-9 and 100) on the remote control.

For example, to select channel 125, press 100, 2, 5.

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Switching between two channels

You can switch between two channels without entering an actual channel number each time.

To switch between two channels:

1. Select the first channel you want to view.
2. Select a second channel using the Channel Number buttons (0-9, 100.)
3. Press CH RTN. The previous channel will be displayed.

Each time you press CH RTN, the TV will switch back and forth between the two channels.

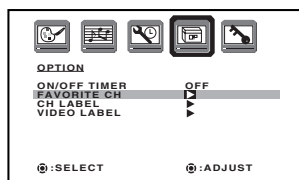
Programming your favorite channels

You can preset up to 12 of your favorite channels using the Favorite Channel Programming feature. Because this feature scans through only your favorite channels, it allows you to skip other channels you do not normally watch.

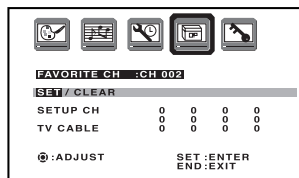
You can still use Channel \wedge/\vee to scan through all the channels you programmed in the TV's memory.

To program your favorite channels:

1. Select a channel you want to program as a favorite channel.
2. Press MENU, then press \blacktriangleleft or \blacktriangleright to display the OPTION menu.
3. Press \blacktriangle or \blacktriangledown to highlight FAVORITE CH.



4. Press \blacktriangleleft or \blacktriangleright to display the FAVORITE CH menu. SET/CLEAR will be highlighted.

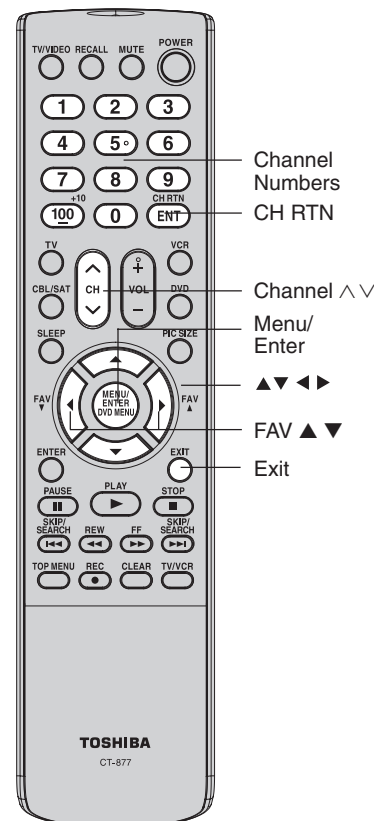


5. Press \blacktriangleleft or \blacktriangleright to highlight SET and press ENTER.
6. Press EXIT to return to normal viewing.
7. Repeat steps 1-6 for up to 12 channels.

To select your favorite channels:

Press the FAV \blacktriangle \blacktriangledown buttons on the remote control to select your favorite channels.

The FAV \blacktriangle \blacktriangledown buttons will not work until you have programmed your favorite channels.



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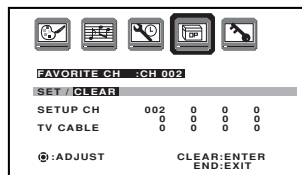
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To clear your favorite channels:

1. Select a channel you want to clear.
2. Press MENU, then press ◀ or ▶ to display the OPTION menu.
3. Press ▲ or ▼ to highlight FAVORITE CH.
4. Press ◀ or ▶ to display the FAVORITE CH menu. SET/CLEAR will be highlighted.
5. Press ◀ or ▶ to highlight CLEAR.



6. Press ENTER until "0" replaces the channel number you want to erase.
7. Press EXIT to return to normal viewing.
8. Repeat steps 1-6 for the other channels.

Using the LOCKS menu

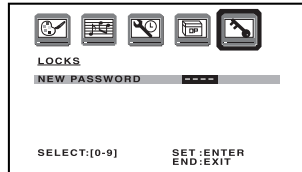
The LOCKS menu includes the CH LOCK, VIDEO LOCK, GAME TIMER, FRONT PANEL LOCK and NEW PASSWORD functions.

Selecting a password

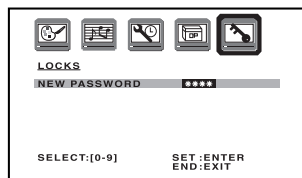
Before you can use these functions, you must select a password.

To select your password and access the LOCKS menu:

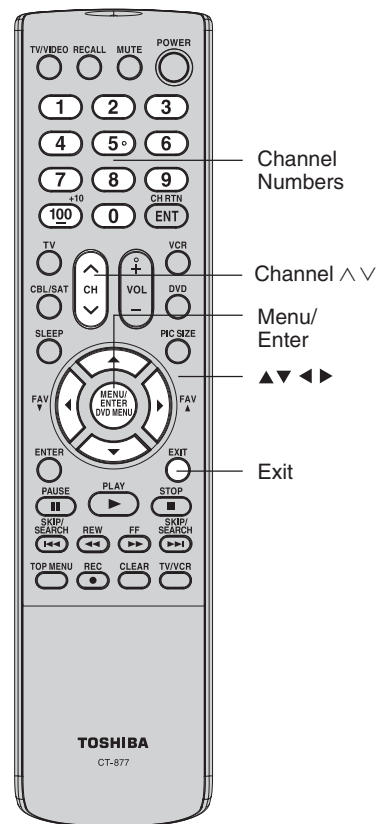
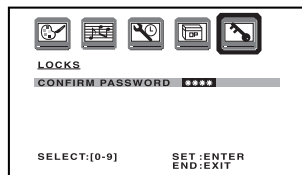
1. Press MENU, then press ◀ or ▶ to highlight the LOCKS menu.
2. Press ▲ or ▼ to display the password entering mode.



3. Use the Channel Number buttons (0-9) to enter your password. If you are accessing the LOCKS menu for the first time, select a four-digit number to be your password. Press ENTER.



4. Enter the password again to confirm it, and then press ENTER. The LOCKS menu appears.





5. You may now set up the LOCKS menu. See “Using the V-Chip (parental control) feature” (below), “Locking channels” (page 26), “Locking the video inputs” (page 27), “Setting the GameTimer™” (page 27), and “Using the front panel lock feature” (page 28.)

To change your password:

1. Press MENU, then press ◀ or ▶ to display the LOCKS menu.
2. Press ▲ or ▼ to display the password entering mode.
3. Use the Channel Number buttons (0-9) to enter your password. Press ENTER. The LOCKS menu appears.
4. Press ▲ or ▼ to highlight NEW PASSWORD and press ◀ or ▶ to display the NEW PASSWORD menu.
5. Use the Channel Number buttons (0-9) to enter a new code. Press ENTER.
6. Enter the password again to confirm it, and then press ENTER.
7. Press EXIT to return to normal viewing.

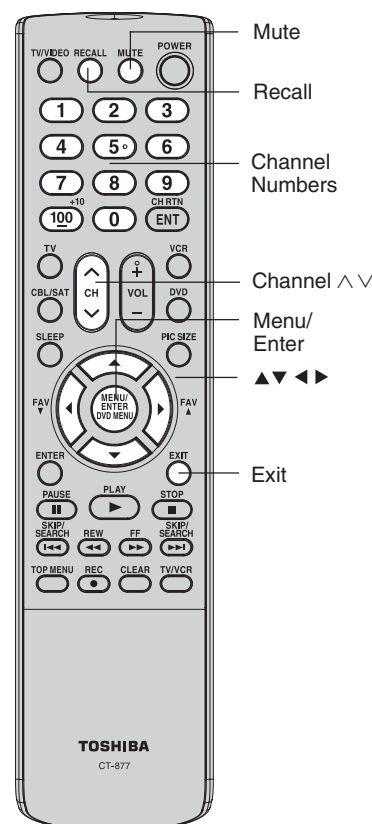
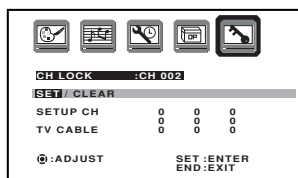
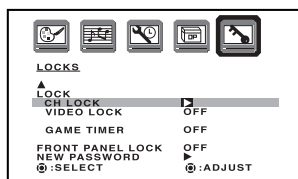
Locking channels

With the CH LOCK feature, you can lock specific channels. You will not be able to tune locked channels unless you clear the setting. You can choose to lock up to nine TV channels and nine cable channels.

To lock channels:

1. Select a channel you want to lock.
2. Press MENU, then press ◀ or ▶ to display the LOCKS menu.
3. Press ▲ or ▼ to display the password entering mode.
4. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
5. Press ▲ or ▼ to highlight CH LOCK and press ◀ or ▶ to display the CH LOCK menu.
6. Press ◀ or ▶ to select the following:
 - SET: to set the channel as one to be locked. Then press ENTER.
 - CLEAR: to clear all channels from the list of locked channels. Then press ENTER.
7. Repeat steps 1 through 6 to lock other channels. When you are finished locking channels, press EXIT to return to normal viewing.

If you try to tune a locked channel, the TV will not display it, but will display the nearest unlocked channel.



Note:

If you forget your password, press RECALL four times within five seconds while the TV is in password entering mode. This allows you to reset your password.

Note:

After programming CH LOCK, change channels before turning off the television.

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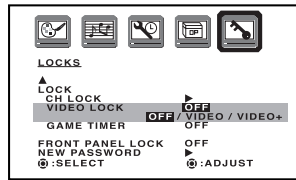
Locking the video inputs

With the VIDEO LOCK feature, you can lock out the input sources (VIDEO1, VIDEO2, VIDEO3, COLORSTREAM HD1, COLORSTREAM HD2, HDMI) and channels 3 and 4.

You will not be able to select the input sources with the TV/VIDEO button or Channel Number unless you clear the setting.

To set up the video lock:

1. Press MENU, then press ◀ or ▶ to display the LOCKS menu.
2. Press ▲ or ▼ to display the password entering mode.
3. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
4. Press ▲ or ▼ to highlight VIDEO LOCK.
5. Press ◀ or ▶ to select:
 - **OFF**: Unlocks all video input sources.
 - **VIDEO**: Locks VIDEO1, VIDEO2, VIDEO3, COLORSTREAM HD1, COLORSTREAM HD2, and HDMI.
 - **VIDEO +**: Locks VIDEO1, VIDEO2, VIDEO3, COLORSTREAM HD1, COLORSTREAM HD2, HDMI, channel 3, and channel 4. This option should be used if you use the antenna terminal to play a video tape.
6. Press EXIT to return to normal viewing.



To unlock the video inputs:

1. Press MENU, then press ◀ or ▶ to display the LOCKS menu.
2. Press ▲ or ▼ to display the password entering mode.
3. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
4. Press ▲ or ▼ to highlight VIDEO LOCK and press ◀ or ▶ to highlight OFF.
5. Press EXIT to return to normal viewing.

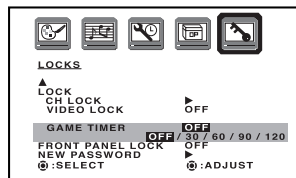
Setting the GameTimer™

With the GameTimer™ feature, you can automatically activate the VIDEO LOCK feature (VIDEO setting) to set a time limit for playing a video game (30, 60, 90, or 120 minutes.)

To set up the GameTimer:

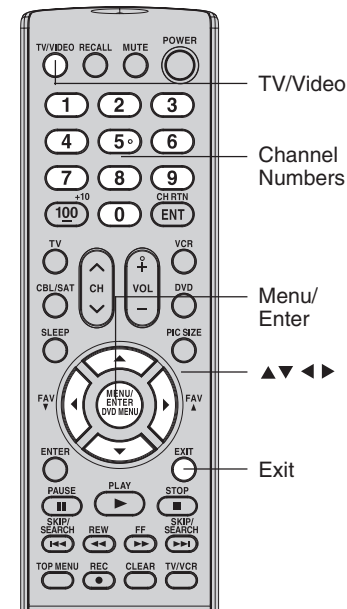
1. Press MENU, then press ◀ or ▶ to display the LOCKS menu.
2. Press ▲ or ▼ to display the password entering mode.
3. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
4. Press ▲ or ▼ to highlight GAME TIMER.
5. Press ◀ or ▶ to select a time limit (30 minutes, 60 minutes, 90 minutes, 120 minutes, or OFF.)
6. Press EXIT to return to normal viewing. After the GameTimer is programmed, the display will appear briefly every ten minutes to remind you that the GameTimer is operating.

When the programmed time is reached, the TV will change channels automatically and enter VIDEO LOCK mode.



To deactivate the GameTimer and unlock the VIDEO LOCK:

Set the VIDEO LOCK to OFF (see "Locking the video inputs" above.)



Note:

After programming VIDEO LOCK, change channels or press the TV/VIDEO key before turning off the television.

Notes:

- Interactive video games that involve shooting a gun type of joy-stick at an on-screen target may not work on this TV.



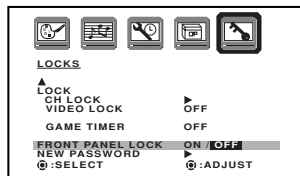
Using the front panel lock feature

You can lock the front panel buttons to prevent your settings from being changed accidentally (by children, for example). When the front panel lock is in ON, all control buttons on the TV front panel (except POWER) do not operate.

To lock the front panel:

1. Press MENU, then press ◀ or ▶ to display the LOCKS menu.
2. Press ▲ or ▼ to display the password entering mode.
3. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
4. Press ▲ or ▼ to highlight FRONT PANEL LOCK and press ◀ or ▶ to highlight ON.

If a button on the front panel is pressed, the message "NOT AVAILABLE" appears.



To unlock the front panel:

Press and hold the VOL ▼ button on the TV front panel for about 10 seconds until the message "FRONT PANEL LOCK: OFF" appears on-screen.

You also can unlock the front panel using the menus:

1. Press MENU, and then press ◀ or ▶ to display the LOCKS menu.
2. Press ▲ or ▼ to display the password entering mode.
3. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.
4. Press ▲ or ▼ to highlight FRONT PANEL LOCK, and then press ◀ or ▶ to highlight OFF.

Labeling channels

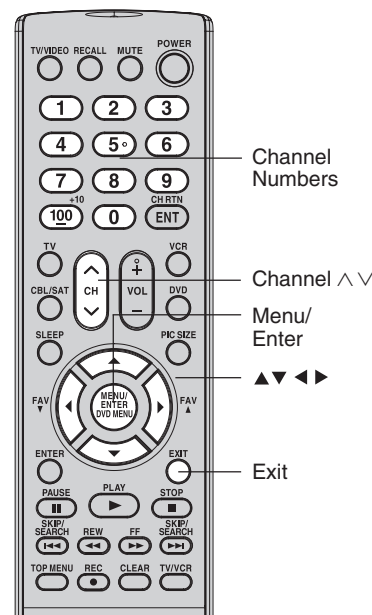
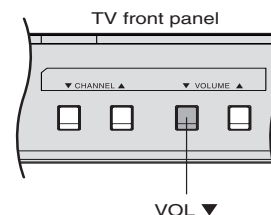
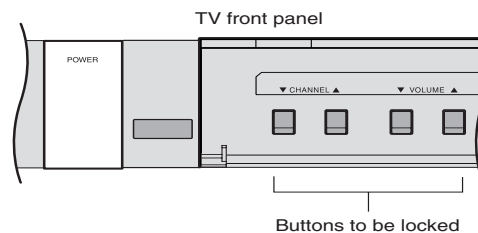
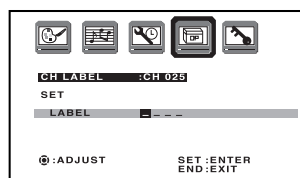
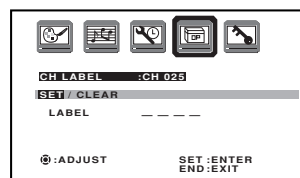
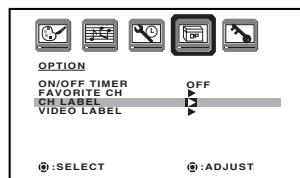
Channel labels appear above the channel number display each time you turn on the TV, select a channel, or press the RECALL button. You can choose any four characters to create a channel label.

To create channel labels:

1. Select a channel you want to label.
2. Press MENU, then press ◀ or ▶ until the OPTION menu appears.
3. Press ▲ or ▼ to highlight CH LABEL.
4. Press ◀ or ▶ to display the CH LABEL menu. SET/CLEAR will be highlighted.
5. Press ◀ or ▶ to highlight SET.
6. Press ▲ or ▼ to highlight LABEL.
7. Repeatedly press ◀ or ▶ until the character you want appears. Press ENTER.
8. Repeat step 7 to enter the rest of the characters.

If you would like a blank space in the label name, you must choose an empty space from the list of characters; otherwise, a dash will appear in that space.

9. Repeat steps 1-8 for other channels. You can assign a label to each channel.
10. Press EXIT to return to normal viewing.



Note:

The character will change as below.

◀ → 0...9 ↔ A...Z
↔ SPACE ↔ + ↔ -

To erase channel labels:

1. Tune the TV to the channel whose label you want to erase.
2. Press MENU, then press ◀ or ▶ until the OPTION menu appears.
3. Press ▲ or ▼ to highlight CH LABEL.
4. Press ◀ or ▶ to display the CH LABEL menu. SET/CLEAR will be highlighted.
5. Press ◀ or ▶ to highlight CLEAR.
6. Press ENTER.
7. Repeat steps 1-6 to erase other channel labels.

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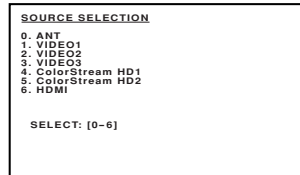
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Selecting the video input source

Press TV/VIDEO to view a signal from another device connected to your TV, such as a VCR or DVD player. You can select ANT, VIDEO 1, VIDEO 2, VIDEO 3, ColorStream HD1, ColorStream HD2, or HDMI depending on which input jacks you used to connect your devices (see “Connecting your TV” on page 7.)



Pressing TV/VIDEO on the remote control displays the current signal source (press TV/VIDEO again or 0-6 to change)

Note:

When ColorStream HD 1, ColorStream HD 2, or HDMI is selected, the video OUT jack does not output a signal. To receive a video OUT signal, you must use a standard video or S-video connection instead.



NEVER CONNECT THIS TV TO A PERSONAL COMPUTER (PC). This TV is not intended for use with a PC.

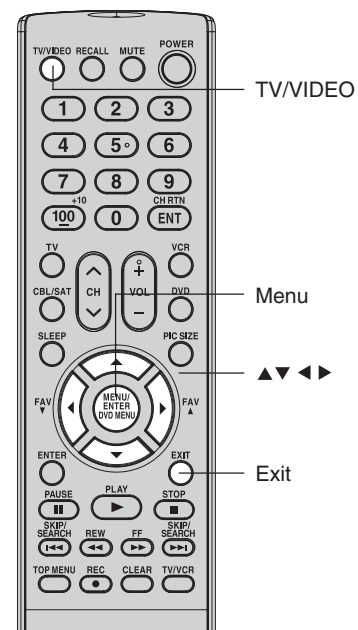
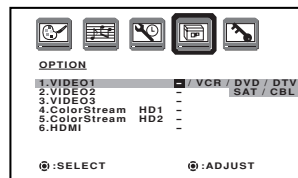
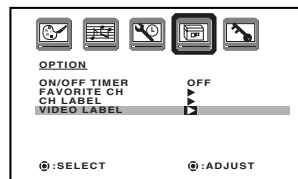
Labeling the video input sources

The video label feature allows you to label each input source for your TV from the following preset list of labels:

- : Uses the default label name
- VCR** : Video cassette recorder
- DVD** : DVD video
- DTV** : Digital TV set-top box
- SAT** : Satellite box
- CBL** : Cable box

To label the video input sources:

1. Press MENU, and then press ◀ or ▶ to display the OPTION menu.
2. Press ▲ or ▼ to highlight VIDEO LABEL.
3. Press ▶ to display the VIDEO LABEL menu.
4. Press ▲ or ▼ to highlight the video source you want to label.
5. Press ◀ or ▶ to select the desired label for that input source.
6. Press EXIT to return to normal viewing.

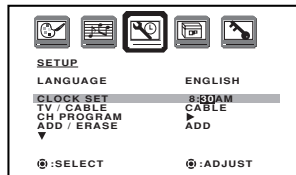
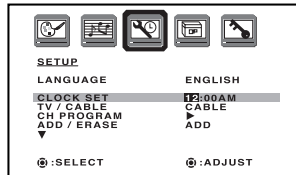


Setting the clock

You must set the clock before you can program the ON/OFF timer.

To set the clock: (Example: 8:30 AM)

1. Press MENU, then press ◀ or ▶ to display the SETUP menu.
2. Press ▲ or ▼ to highlight CLOCK SET.
3. Press ◀ or ▶ to highlight the hour position.
4. Press ▲ or ▼ to set the hour, then press ▶ to highlight the minute position.
5. Press ▲ or ▼ to set the minutes, then press EXIT to return to normal viewing.

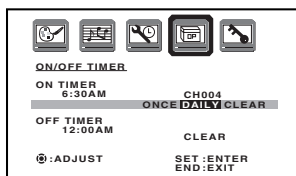
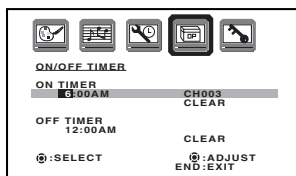


Setting the ON/OFF timer

This feature allows you to program the TV to turn on or off automatically at a set time. If you program the ON TIMER to "DAILY", the TV will turn on every day at the same time to the same channel until you clear the ON TIMER.

To set the ON timer: (Example: Turning on the TV to channel 12 at 6:30 AM, DAILY)

1. Set the clock, if you have not already done so (see above.)
2. Press MENU, and then press ◀ or ▶ to display the OPTION menu.
3. Press ▲ or ▼ to highlight ON/OFF TIMER.
4. Press ◀ or ▶ to highlight SET, then press ENTER. The ON/OFF TIMER menu appears.
5. Press ▲ or ▼ to highlight ON TIMER, then press ▶ to highlight the hour position.
6. Press ▲ or ▼ to set the desired hour, then press ▶.
7. Set the desired minutes and channel, as in step 6.
8. Press ◀ or ▶ to select ONCE or DAILY, then press ENTER.
9. Press EXIT to return to normal viewing.



To set the OFF timer:

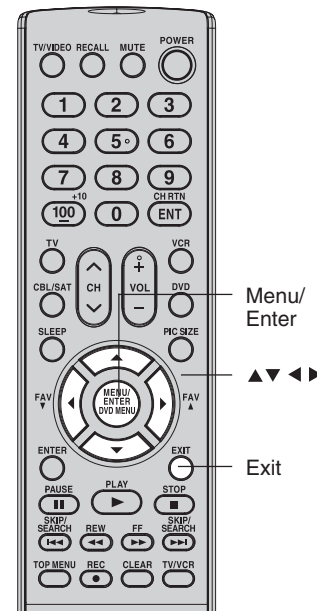
Follow steps 1-9 above, except select OFF TIMER in step 5.

To cancel the ON/OFF timers:

Select CLEAR in step 8 above.
Press EXIT to return to normal viewing.

Note:

If the power source for the TV is interrupted (for example, the power cord is unplugged or a power failure occurs), you will need to reset the clock.



Note:

After a power failure or disconnection of the power, the ON/OFF timer settings will be lost.

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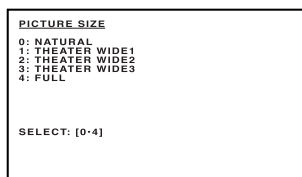
Viewing the wide-screen picture formats (480i and 480p signals only)

You can view 480i and 480p format programs in a variety of picture sizes—Natural, TheaterWide 1, TheaterWide 2, TheaterWide 3, and Full.

The way the image displays in any of the picture sizes will vary depending on the format of the program you are viewing. Select the picture size that displays the current program the way that looks best to you.

Selecting the picture size

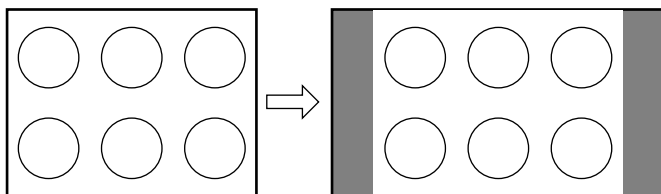
1. Press PIC SIZE on the remote control.
2. Press the corresponding number button (0-4) to select the desired picture size, as described below and on the next page.



Natural picture size

- The image is displayed close to its originally formatted proportion. Some program formats will display with side bars and/or bars at the top and bottom.

Natural picture size example: The way the image displays will vary depending on the format of the program you are currently watching.

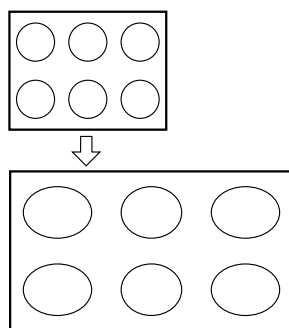


Conventional (4:3) picture on a conventional TV screen

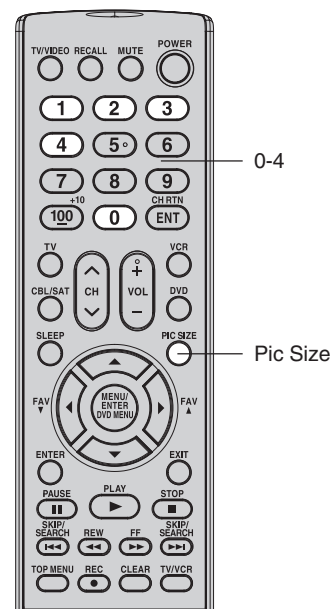
Conventional (4:3) picture in Natural size on your wide-screen TV

TheaterWide 1 picture size (for 4:3 format programs)

- The center of the picture remains close to its original proportion, but the left and right edges are stretched wider to fill the screen.
- The top and bottom edges of the picture may be hidden; however, this mode cannot be scrolled.

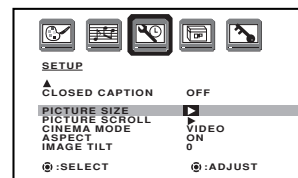


TheaterWide 1 picture size example



Note:

You also can change the picture size by selecting PICTURE SIZE in the SETUP menu.



Notes:

- The PICTURE SIZE feature is not available for some program formats (such as 1080i or 720p.) Such formats will display in Natural picture size.
- If you select TheaterWide 2 or 3, the top and bottom edges of the picture may be hidden. To see the hidden edges, either scroll the picture (see page 32) or try viewing the program in Full picture size.

NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE DISPLAY

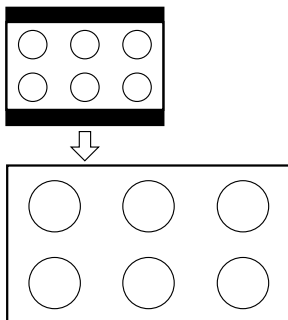
Avoid displaying stationary images on your TV screen for extended periods of time. Fixed (non-moving) patterns or images (including but not limited to PIP/POP windows, closed captions, video game patterns, TV station logos, stock tickers, websites, and special formats that do not use the entire screen) can become permanently ingrained in the cathode ray tube(s) of the TV and cause subtle but permanent ghost images. **This type of damage is NOT COVERED BY YOUR WARRANTY.**

- Using these functions to change the picture size (i.e., changing the height/width ratio) for any purpose other than your private viewing may be prohibited under the Copyright Law, and may subject you to civil and criminal liability.



TheaterWide 2 picture size (for letter box programs)

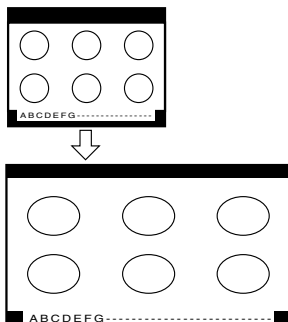
- The picture is stretched the same amount both wider and taller (retains its original proportion).
- The top and bottom edges of the picture may be hidden. To view the hidden areas, see “Scrolling the TheaterWide picture” on page 32.



TheaterWide 2 picture size example

TheaterWide 3 picture size (for letter box programs with subtitles)

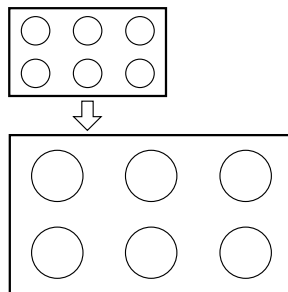
- The picture is stretched wider to fill the width of the screen, but only slightly stretched taller.
- The top and bottom edges of the picture may be hidden. To view the hidden areas (such as subtitles or captions), see “Scrolling the TheaterWide picture” on page 32.



TheaterWide 3 picture size example

Full picture size (for 16:9 source programs)

- If receiving a 4:3 format program, the picture is stretched wider to fill the width of the screen, but not stretched taller.
- None of the picture is hidden.



Full picture size example

Note:

Using these functions to change the picture size (i.e., changing the height/width ratio) for any purpose other than your private viewing may be prohibited under the Copyright Law, and may subject you to civil and criminal liability.

NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE DISPLAY

Avoid displaying stationary images on your TV screen for extended periods of time. Fixed (non-moving) patterns or images (including but not limited to PIP/POP windows, closed captions, video game patterns, TV station logos, stock tickers, websites, and special formats that do not use the entire screen) can become permanently ingrained in the cathode ray tube(s) of the TV and cause subtle but permanent ghost images. **This type of damage is NOT COVERED BY YOUR WARRANTY.**

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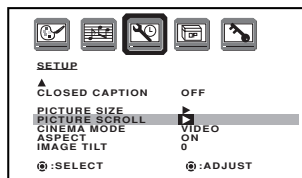
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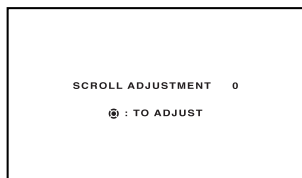


Scrolling the TheaterWide® picture (TheaterWide 2 and 3 only)

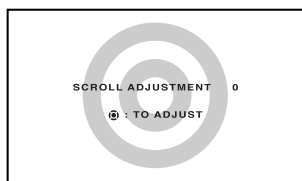
1. Press PIC SIZE to select the TheaterWide 2 or 3 mode.
2. Press MENU, and then press ◀ or ▶ until the SETUP menu appears.
3. Press ▲ or ▼ to highlight PICTURE SCROLL.



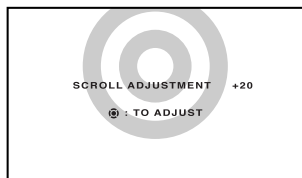
4. Press ◀ or ▶ to display the Scroll Adjustment mode.



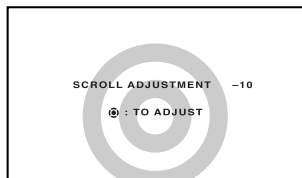
5. Press ▲ or ▼ to adjust the vertical position of the picture.
 - Normal (center) position



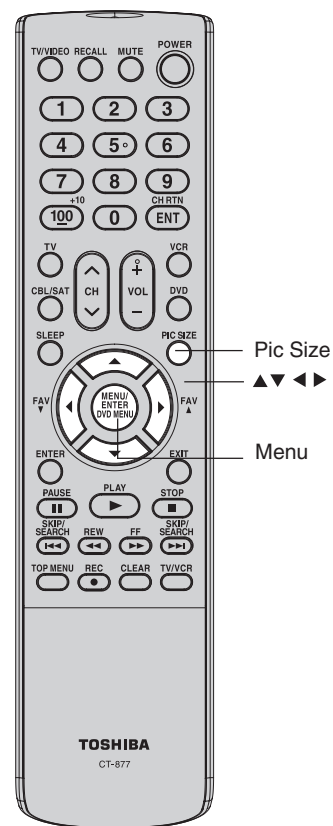
- To raise the picture, press ▲.



- To lower the picture, press ▼.



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Note:

You can scroll the picture in TheaterWide 2 and TheaterWide 3 only. The scroll amounts are as follows:

- 480i/480p signal source:
 - Wide 1 : Not adjustable
 - Wide 2 : -10 to +20
 - Wide 3 : -10 to +20

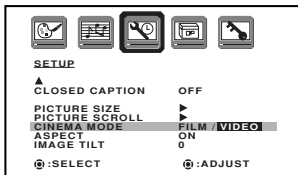


Selecting the cinema mode

When you view a DVD movie (3:2 pulldown processed) from a DVD player connected to the ColorStream (component video) inputs on the TV, smoother and more natural motion can be obtained by setting the CINEMA MODE to FILM.

To set the CINEMA MODE to FILM:

1. Press MENU, and then press ◀ or ▶ until the SETUP menu appears.
2. Press ▲ or ▼ to highlight CINEMA MODE, and then press ◀ or ▶ to select FILM.



To set the CINEMA MODE to VIDEO (off):

Press ◀ or ▶ to select VIDEO in step 2 above.

Using the ASPECT feature

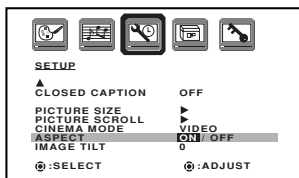
When the ASPECT feature is set to ON and the TV receives a 480i signal, the picture size is automatically selected (as described in the following table.)

Aspect ratio of signal source	Automatic aspect size (automatically selected when ASPECT is ON)
4:3 Normal	Natural
16:9 Full	Full
4:3 Letter box	TheaterWide 2
Not defined	User-set mode

If the signal does not include aspect information, the picture size you selected on pages 30 and 31 is displayed.

To turn on the ASPECT feature:

1. Press MENU, and then press ◀ or ▶ until the SETUP menu appears.
2. Press ▲ or ▼ to highlight ASPECT, and then press ◀ or ▶ to select ON.

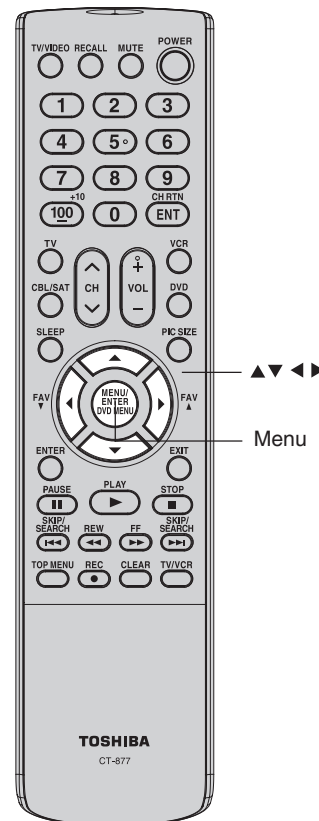
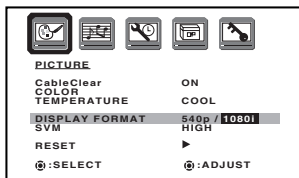


Selecting the display format (for 480p signals only)

This feature converts a 480p input signal to 540p or 1080i.

To select the display format:

1. Press MENU, and then press ◀ or ▶ until the PICTURE menu appears.
2. Press ▲ or ▼ to highlight DISPLAY FORMAT.
3. Press ◀ or ▶ to select 540p or 1080i.



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Notes:

- The DISPLAY FORMAT feature is available only for 480p input. 1080i is always output when a signal other than 480p is input.
- If you notice flickering in a 480p image, try setting the DISPLAY FORMAT to 540p.



Adjusting the picture

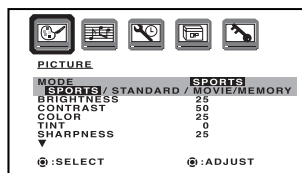
Selecting the picture mode

You can select from four picture modes—Sports, Standard, Movie, and Memory—as described in the following table:

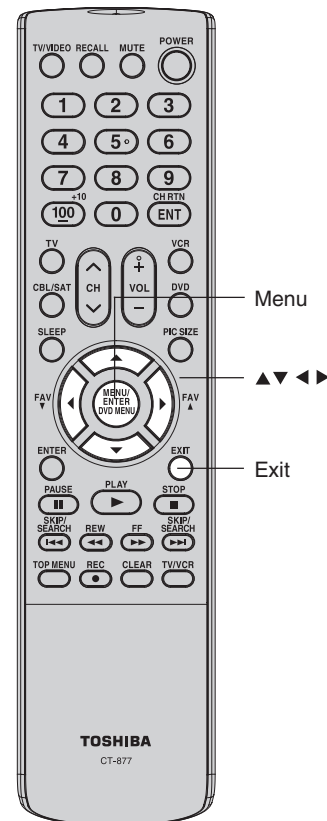
Mode	Picture Quality
SPORTS	Bright and dynamic picture (factory-set)
STANDARD	Standard picture quality (factory-set)
MOVIE	Movie-like picture setting (factory-set)
MEMORY	Your personal preferences (set by you; see "Adjusting the picture quality")

To select the picture mode:

1. Press MENU, then press ◀ or ▶ to display the PICTURE menu.
2. Press ▲ or ▼ to highlight MODE.



3. Press ◀ or ▶ to highlight the mode you prefer.
4. Press EXIT to return to normal viewing.

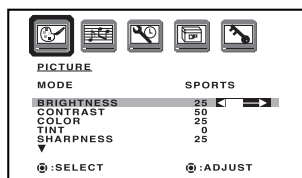


Adjusting the picture quality

You can adjust the picture quality to your personal preferences, including the brightness, contrast, color, tint, and sharpness. The qualities you choose will be stored automatically in the PICTURE menu's MEMORY mode so you can recall them at any time.

To adjust the picture quality:

1. Press MENU, then press ◀ or ▶ to display the PICTURE menu.
2. Press ▲ or ▼ until the item you want to adjust is highlighted.



3. Press ◀ or ▶ to adjust the level.

Selection	◀ Pressing	▶
BRIGHTNESS	darker	lighter
CONTRAST	lower	higher
COLOR	paler	deeper
TINT	reddish	greenish
SHARPNESS	softer	sharper

4. Press EXIT to return to normal viewing.

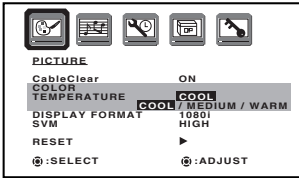
Selecting the color temperature

Change the picture quality by selecting from three preset color temperatures—cool, medium, and warm—as described in the following table:

Mode	Picture Quality
COOL	Blueish
MEDIUM	Neutral
WARM	Reddish

To select the color temperature:

1. Press MENU, then press ◀ or ▶ to display the PICTURE menu.
2. Press ▲ or ▼ to highlight COLOR TEMPERATURE.



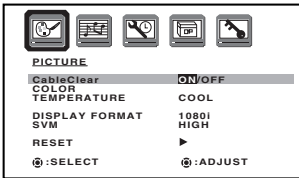
3. Press ◀ or ▶ to highlight the mode you prefer.
4. Press EXIT to return to normal viewing.

Using the CableClear® feature

CableClear® reduces visible interference in your TV picture. This is useful when receiving a broadcast with a weak signal (especially a Cable channel) or playing a video cassette or disc damaged by repeated use.

To turn on the CableClear® feature:

1. Press MENU, then press ◀ or ▶ to display the PICTURE menu.
2. Press ▲ or ▼ to highlight CableClear.



3. Press ◀ or ▶ to select ON.

To turn off the CableClear® feature:

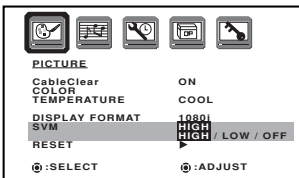
Select OFF in step 3.

Selecting the Scan Velocity Modulation (SVM)

The SVM feature enhances picture contrast and sharpness. This feature has three modes: HIGH, LOW, and OFF.

To select the SVM feature:

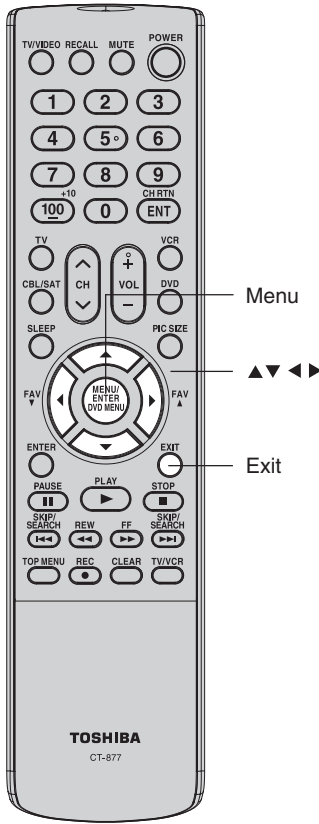
1. Press MENU, then press ◀ or ▶ to display the PICTURE menu.
2. Press ▲ or ▼ to highlight SVM.



3. Press ◀ or ▶ to select the mode you prefer.

To turn off the SVM:

Select OFF in step 3.



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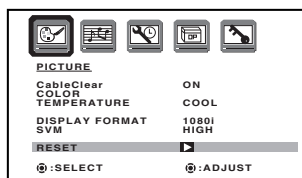
Resetting your picture adjustments

The RESET function returns your picture quality adjustments to the following factory settings:

Mode	sports	Tint	center (0)
Brightness	center (25)	Sharpness	center (25)
Contrast	max (50)	Color temperature	cool
Color	center (25)	SVM	high

To reset your picture adjustments:

1. Press MENU, then press ◀ or ▶ to display the PICTURE menu.
2. Press ▲ or ▼ to highlight RESET, and then press ▶.



Setting the sleep timer

You can use the sleep timer to automatically turn off the TV at a set time.

To set the sleep timer:

Repeatedly press SLEEP on the remote control to set the length of time until the TV turns off. The clock will increase 10 minutes for each press of the SLEEP button (0h00m, 0h10m, ...1h50m, 2h00m.) After the sleep timer is programmed, the display will appear briefly every ten minutes to remind you that the sleep timer is operating.

To confirm the sleep timer setting:

Press SLEEP one time. The remaining time will be momentarily displayed.

To cancel the sleep timer:

Repeatedly press SLEEP until the display turns to 0h00m.

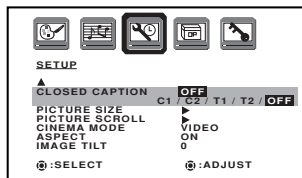
Using the closed caption feature

The Closed Caption feature has two options:

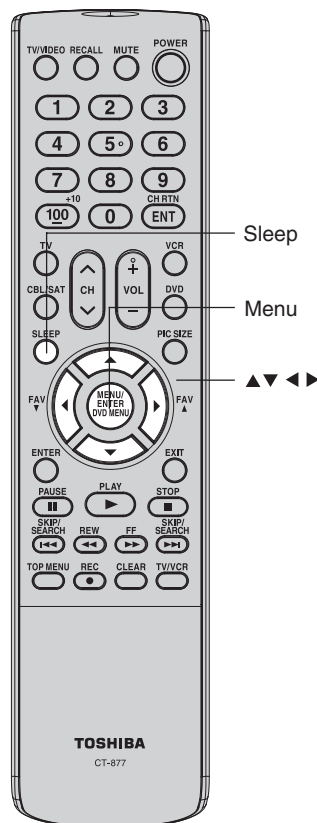
- Captions—An on-screen display of the dialogue, narration, and sound effects of programs and videos that are closed-captioned (usually identified in your local TV listings as “CC”).
- Text—An on-screen display of information not related to the program, such as weather or stock data (if available in your viewing area).

To view captions or text:

1. Tune the TV to the desired program.
2. Press MENU, and then press ◀ or ▶ to display the SETUP menu.
3. Press ▲ or ▼ to highlight CLOSED CAPTION.



4. Press ◀ or ▶ to select the desired Closed Caption mode, as follows:
 - To view captions, select C1 or C2 (C1 displays translation of the primary language in your area.)
Note: If the program or video you selected is not closed-captioned, no captions will display on-screen.
 - To view text, select T1 or T2. Note: If text is not available in your viewing area, a black rectangle may appear on-screen. If this happens, set the Closed Caption feature to OFF.
 - To turn the Closed Caption feature off, highlight OFF in the Closed Caption menu.



Note:

A closed caption signal may not be decoded in the following situations:

- when a video tape has been dubbed
- when the signal reception is weak
- when the signal reception is non-standard

NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

Avoid displaying stationary images on your TV screen for extended periods of time. Fixed (non-moving) images (such as black/gray bars in wide-screen picture formats, video game patterns, TV station logos, closed captions) can become permanently ingrained in the picture tube. **This type of damage is NOT COVERED BY YOUR WARRANTY.**

Adjusting the sound

Muting the sound

Press MUTE to temporarily turn off the sound. While the sound is off, the screen will display the word MUTE in the lower right-hand corner. To restore the sound, press MUTE again.

Selecting stereo/SAP broadcasts

The multi-channel TV sound (MTS) feature provides high-fidelity stereo sound. MTS also can transmit a second audio program (SAP) containing a second language or other audio information (when available).

Note: The MTS feature is not available in VIDEO mode.

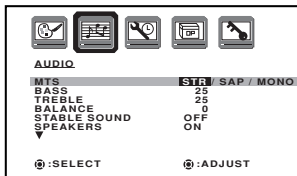
When the TV receives a stereo or SAP broadcast, the word "STEREO" or "SAP" displays on-screen every time you turn on the TV, change the channel, or press RECALL.

To listen to stereo sound:

1. Press MENU, then press ◀ or ▶ to display the AUDIO menu.
2. Press ▲ or ▼ to highlight MTS.
3. Press ◀ or ▶ to highlight STR (stereo).

Note:

- In general, you can leave your TV in stereo mode because the TV automatically outputs the type of sound being broadcast (stereo or mono.)
- If the stereo sound is noisy, select MONO to reduce the noise.



4. Press EXIT to return to normal viewing.

To listen to a second audio program (SAP):

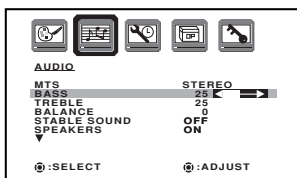
1. Press MENU, then press ◀ or ▶ to display the AUDIO menu.
2. Press ▲ or ▼ to highlight MTS.
3. Press ◀ or ▶ to highlight SAP. The TV speakers will output the second audio program instead of normal audio.
4. Press EXIT to return to normal viewing.

Adjusting the sound quality

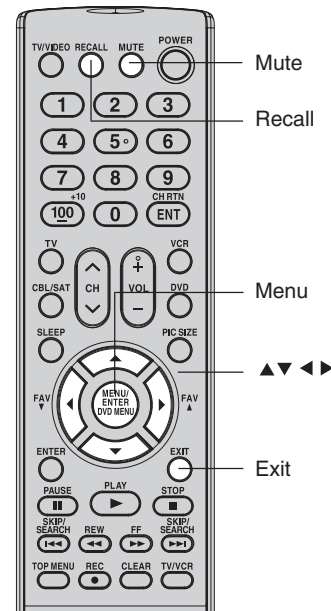
You can change the sound quality of your TV by adjusting the bass, treble, and balance.

To adjust the sound quality:

1. Press MENU, then press ◀ or ▶ until the AUDIO menu appears.
2. Press ▲ or ▼ to highlight the item you want to adjust.



3. Press ◀ or ▶ to adjust the level.
 - ◀ makes the sound quality weaker or increases the balance in the left channel, depending on the item selected.
 - ▶ makes the sound quality stronger or increases the balance in the right channel, depending on the item selected.



Note:

A second audio program (SAP) can be heard only on those TV stations that offer it.

For example, a station might broadcast music as a second audio program. If you have SAP on, you will see the current program on the screen but hear music instead of the program's normal audio.

However, if you have SAP on, and the station you are watching is not currently broadcasting a second audio program, the station's normal audio will be output; however, occasionally there is no sound at all in SAP mode. If this happens, set the MTS feature to STEREO mode.

Note:

Adjusting the sound quality (bass, treble, and balance) does not affect the sound that is output from the variable audio OUT jacks.

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Resetting your audio adjustments

The RESET function returns your audio adjustments to the following factory settings:

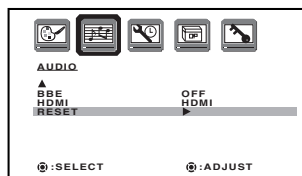
Bass center (25)

Treble center (25)

Balance center (0)

To reset your audio adjustments:

1. Press MENU, then press ◀ or ▶ to display the AUDIO menu.
2. Press ▲ or ▼ to highlight RESET, and then press ▶.

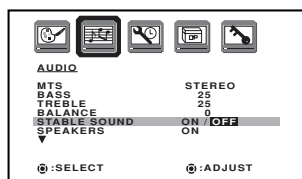


Using the StableSound® feature

The StableSound feature limits the highest volume level to prevent extreme changes in volume when the signal source is changed.

To turn on the StableSound® feature:

1. Press MENU, then press ◀ or ▶ to display the AUDIO menu.
2. Press ▲ or ▼ to highlight STABLE SOUND.
3. Press ◀ or ▶ to highlight ON.



To turn off the StableSound® feature:

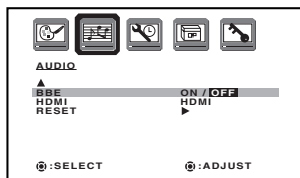
Highlight OFF in step 3 above.

Using the BBE sound feature

By correcting the phase delay and distortion naturally generated by speaker systems, the BBE sound feature ensures that the sound that reaches your ears is as natural as the original sound. Human voices are clearer and music is natural and well-defined.

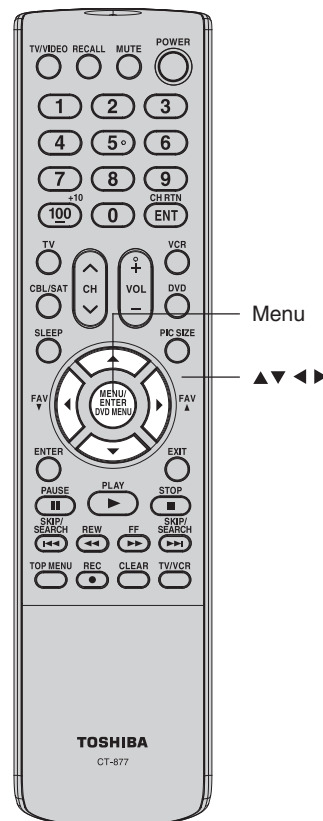
To turn on the BBE sound feature:

1. Press MENU, then press ◀ or ▶ until the AUDIO menu appears.
2. Press ▲ or ▼ to highlight BBE.
3. Press ◀ or ▶ to highlight ON.



To turn off the BBE sound feature:

Highlight OFF in step 3 above.



Note:

Make sure the volume control of your audio amplifier is set to a moderate listening level.

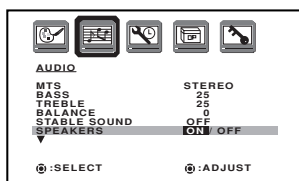


Turning off the built-in speakers

Use this feature to turn off the TV speakers when you connect an audio system (see “Connecting an audio system” on page 15.)

To turn off the built-in speakers:

1. Press MENU, then press ◀ or ▶ to display the AUDIO menu.
2. Press ▲ or ▼ to highlight SPEAKERS, and then press ◀ or ▶ to select OFF.



To turn on the built-in speakers:

Select ON in step 2 above.

Selecting the HDMI audio input source

See page 14 for details on connecting an HDMI or a DVI device to the TV's HDMI input.

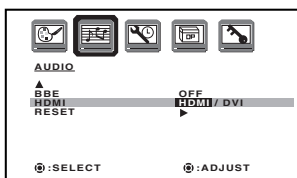
If you connect a DVI device, to hear audio you must also connect the analog audio cables to the HDMI audio IN jacks (see page 14.) Set the HDMI audio input setting to “DVI” with this connection.

If you connect an HDMI device and play media with digital audio output, to hear digital audio, set the HDMI audio input setting to “HDMI” with this connection.

If you connect an HDMI device but play media with analog audio output (for example, certain CDVs do not output digital audio), to hear audio you must also connect the analog audio cables to the HDMI audio IN jacks (see page 14.) Set the HDMI audio input setting to “DVI” with this connection.

To select the HDMI audio input source:

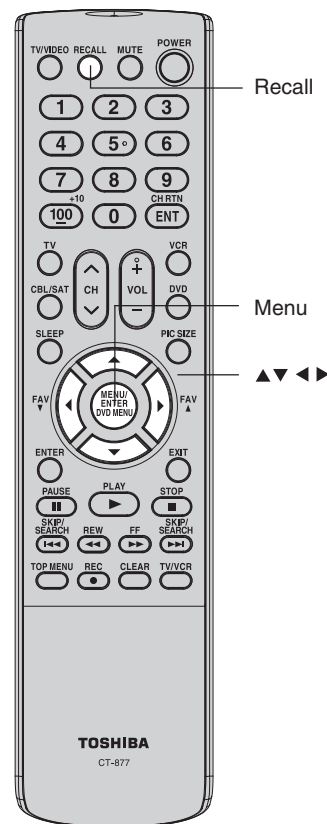
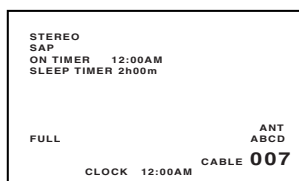
1. Press MENU, and then press ◀ or ▶ to display the AUDIO menu.
2. Press ▼ or ▲ to highlight HDMI.
3. Press ◀ or ▶ to select HDMI or DVI.



Displaying TV status information on-screen

Press RECALL to display the following information on-screen:

- Clock
- Channel number or VIDEO mode selected
- Channel label (if set)
- Stereo or SAP (second audio program) audio status
- On timer, Sleep timer (if set)
- Picture size



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Auto power off

The TV will automatically turn off after approximately 15 minutes if it is tuned to a vacant channel or a station that completes its broadcast for the day and stops broadcasting on that channel. This feature does not work in VIDEO mode.

Understanding the Power Return feature

If the power is cut off while you are viewing the TV and the power is resupplied, the Power Return feature will turn the TV on automatically.

If the power is going to be off for a long time or you are going to be away from the TV for a long time, unplug the power cord from the wall outlet to prevent the TV from turning on in your absence.

Appendix Troubleshooting

Before calling a service technician, please check the following table for a possible cause of the symptom and some solutions.

Symptom	Solution
TV will not turn on	<ul style="list-style-type: none">Make sure the power cord is plugged in, then press POWER.The remote control batteries may be dead. Replace the batteries.
No picture, no sound	<ul style="list-style-type: none">Check the antenna/cable connections.
No sound, picture OK	<ul style="list-style-type: none">The sound may be muted. Press VOLUME.The station may have broadcast difficulties. Try another channel.The MTS feature may be in SAP mode. Select STR or MONO in the MTS menu.
Poor sound, picture OK	<ul style="list-style-type: none">The station may have broadcast difficulties. Try another channel.The MTS feature may be in SAP mode. Select STR or MONO in the MTS menu.
Poor picture, sound OK	<ul style="list-style-type: none">Check the antenna connections.The station may have broadcast difficulties. Try another channel.Adjust the PICTURE menu.
Poor reception of broadcast channels	<ul style="list-style-type: none">The station may have broadcast difficulties. Try another channel.Check the antenna connections.If you are using a video input, make sure the TV/VIDEO button is set correctly.
Cannot receive above channel 13	<ul style="list-style-type: none">Make sure the TV/CABLE feature in the SETUP menu is set to "CABLE".
Unable to select a certain channel	<ul style="list-style-type: none">The channel may be blocked by CH LOCK feature or erased with the add/erase feature.
Cannot access signal input sources (Video1, Video2, Video3, ColorStream HD1, ColorStream HD2, and HDMI) and/or Channels 3 and 4	<ul style="list-style-type: none">Check the VIDEO LOCK feature.
Multiple images	<ul style="list-style-type: none">The station may have broadcast difficulties. Try another channel.Use a highly directional outdoor antenna.
Poor color or no color	<ul style="list-style-type: none">The station may have broadcast difficulties. Try another channel.Adjust the TINT and/or COLOR in the PICTURE menu.If you change the direction of the TV while it is turned on, the picture could suffer from color shading. If so, turn off the TV and allow it to cool for several hours before turning it on again.
Black box on screen	<ul style="list-style-type: none">Select OFF in the Closed Caption menu to turn off the Closed Caption Text mode.
No stereo or SAP sound from a known MTS broadcast	<ul style="list-style-type: none">Make sure the MTS feature (in the AUDIO menu) is set properly.
The LOCKS password does not work	<ul style="list-style-type: none">Change or reset your password.
The remote control does not operate	<ul style="list-style-type: none">Make sure the TV • CBL/SAT • VCR • DVD mode is set properly on the remote control.Remove all obstructions between the remote control and the TV.The remote control batteries may be dead. Replace the batteries.
The front panel buttons do not operate	<ul style="list-style-type: none">Check the FRONT PANEL LOCK feature.



Specifications

- This model complies with the specifications below.
- Design and specifications are subject to change without notice.
- This model may not be compatible with features and/or specifications that may be added in the future.

Picture Tube	860 mm (34 in.) diagonal (Screen size is approximate.)
Television system	NTSC standard
Channel coverage	VHF: 2–13 UHF: 14–69 Cable TV: 4A, A-5–A-1, A-I, J–W, W+1–W+84
Power source	120V AC, 60 Hz
Power consumption	195 W
Audio power	10 W + 10 W
Speaker type	50.8 x 119.4 mm (2 x 4-11/16 in.) x 2 pcs.
Video/Audio terminals	S-VIDEO INPUT Y-INPUT: 1V (p-p), 75 ohm, negative sync. C-INPUT: 0.286V (p-p) (burst signal), 75 ohm VIDEO/AUDIO INPUT VIDEO: 1V (p-p), 75 ohm, negative sync. AUDIO: 150 mV (rms) (30% modulation equivalent, 47k ohm) ColorStream® (component video) INPUT Y: 1V (p-p), 75 ohm PR: 0.7V (p-p), 75 ohm PB: 0.7V (p-p), 75 ohm VIDEO/AUDIO OUTPUT VIDEO: 1V (p-p), 75 ohm, negative sync. AUDIO: 150 mV (rms) (30% modulation equivalent, 47k ohm) HDMI INPUT: HDMI compliant (type A connector) HDCP compliant E-EDID* compliant Suggested scan rates: 1080i, 480p, 480i, 720p HDMI Audio: 2-channel PCM 32/44.1/48 kHz sampling frequency 16/20/24 bits per sample
Dimensions	Width: 896 mm (35-1/4 in.) Height: 620 mm (24-7/16 in.) Depth: 613 mm (24-1/8 in.)
Weight	154.4 lbs. (70 kg)
Supplied accessories	Remote control with two size “AAA” batteries

* E-EDID = Enhanced - Extended Display Identification

Important
Safeguards

Welcome to
Toshiba

Connecting
your TV

Using the
Remote Control

Setting up
your TV

Using the TV's
Features

Appendix

Limited Warranty
for 25" to 31" Television Models

Toshiba of Canada Limited ("TCL") makes the following limited warranties to original consumers in Canada. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS TELEVISION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

PRODUCTS PURCHASED ANYWHERE OUTSIDE OF CANADA (INCLUDING, WITHOUT LIMITATION, THE U.S.A. AND MEXICO) AND USED IN CANADA ARE NOT COVERED BY THESE WARRANTIES.

PRODUCTS PURCHASED IN CANADA AND USED ANYWHERE OUTSIDE OF CANADA (INCLUDING, WITHOUT LIMITATION, THE U.S.A. AND MEXICO) ARE NOT COVERED BY THESE WARRANTIES.

Limited One (1) Year Warranty on Parts and Labor*

TCL warrants this television and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR. YOU MUST DELIVER THE ENTIRE TELEVISION TO AN AUTHORIZED TCL SERVICE DEPOT. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE SERVICE DEPOT.

Limited Two (2) Year Warranty on Picture Tube*

TCL warrants the picture tube in this television against defects in materials or workmanship for a period of two (2) years after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PICTURE TUBE WITH A NEW OR REFURBISHED PICTURE TUBE WITHOUT CHARGE TO YOU. LABOR CHARGES FOR PICTURE TUBE REPLACEMENT ARE NOT COVERED UNDER THIS WARRANTY AFTER ONE (1) YEAR FROM THE DATE OF THE ORIGINAL RETAIL PURCHASE. YOU MUST DELIVER THE ENTIRE TELEVISION TO AN AUTHORIZED TCL SERVICE DEPOT. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE SERVICE DEPOT.

Rental Units

The warranty for rental units begins with the date of first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

***Limited Warranty for Commercial Units**

TCL warrants televisions sold and used for commercial purposes as follows: all parts are warranted against defects in materials or workmanship for a period of ninety (90) days after the date of original purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU. YOU MUST DELIVER THE ENTIRE TELEVISION TO AN AUTHORIZED TCL SERVICE DEPOT. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE SERVICE DEPOT.

Owner's Manual and Product Registration

Read this owner's manual thoroughly before operating this television. Register your product online at www.toshiba.ca as soon as possible. By registering your product you will enable TCL to provide you with better customer service and improved product support. Failure to register your product does not diminish your warranty rights.

Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- (1) You must provide your bill of sale or other proof of purchase.
- (2) All warranty servicing of this television must be performed by an Authorized TCL Service Depot.
- (3) These warranties from TCL are effective only if the television is purchased in Canada from an authorized TCL dealer and operated in Canada.
- (4) Labor charges for installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.
- (5) Warranties extend only to defects in materials or workmanship as limited above, and do not extend to any television or parts that have been lost or discarded by you or to damage to the television or parts caused by fires, misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TCL; use or malfunction through simultaneous use of this product and connected equipment; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

How to Obtain Warranty Services

If, after following all of the operating instructions in this manual and checking the "Troubleshooting" section, you find that service is needed:

- (1) To find the nearest TCL Authorized Service Depot, visit TCL's web site at www.toshiba.ca.
- (2) Present your bill of sale or other proof of purchase to the Authorized Service Depot.

For additional information, visit TCL's web site:
www.toshiba.ca

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Appendix

29/03/2005, 1:56 AM



TOSHIBA OF CANADA LIMITED

191 McNabb Street
Markham, Ontario L3R 8H2
TEL.: (905) 470-5400

Service Centers:

TORONTO: 191 McNABB STREET,
MARKHAM, ONTARIO, L3R 8H2, CANADA
TEL.: (905) 470-5400

MONTREAL: 18050 TRANS CANADA, KIRKLAND,
QUEBEC, H9J-4A1, CANADA
TEL.: (514) 390-7766

VANCOUVER: 22171 FRASERWOOD WAY,
RICHMOND, B.C., V62 1J5, CANADA
TEL.: (604) 303-2500

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